FiNAL 2024 Conceptual Site Model Report

Washington Works Facility
Parkersburg, West Virginia

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Appendix K Off-Site Water Data Included in Summary Tables

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Acronym/Abbreviation List

Acronym	Explanation
µg/kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
ACO	Administrative Compliance Order on Consent
ADPs	Anerobic Digestion Ponds
AOC	Area of Concern
APFO	Ammonium Perfluorooctanoate
BG	Burning Grounds
bgs	Below Ground Surface
C-8	Historical Name for APFO
CA	Corrective Action
CEM	Conceptual Exposure Model
Chemours	Chemours Company FC, LLC
cm/sec	Centimeters per Second
CMI	Corrective Measures Implementation
CMIP	Corrective Measures Implementation Plan
CMS	Corrective Measures Study
CSM	Conceptual Site Model
DuPont	E.I. du Pont de Nemours and Company
EIM	Environmental Information Management
EPA	United Stated Environmental Protection Agency
F-143	Nomenclature for APFO
FAOC	First Amendment to Order on Consent
FDRC	Final Decision and Response to Comments
FEP	Fluoroethylene Propylene
GAC	Granular Activated Carbon
gpm	Gallons per Minute
HA	Health Advisory
HFPO-DA	Hexafluoropropylene Oxide Dimer Acid
HSWA	Hazardous and Solid Wastes Amendments
IC	Institutional Control
IRM	Interim Remedial Measures
LHWA	Little Hocking Water Association
LOD	Limit of Detection
M&M	Monitoring and Maintenance
MCL	Maximum Contamination Level
mgd	Million Gallons per Day
mg/kg	Milligrams per Kilogram
MNA	Monitored Natural Attenuation
NaOCl	Sodium Hypochlorite
ND	Not Detected
New DuPont	DuPont de Nemours, Inc.
ng/kg	Nanograms per Kilogram
ng/L	Nanograms per Liter
NH4+	Ammonium
NPDES	National Pollutant Discharge Elimination System
NQ	Non-Quantifiable
OM&M	Operation, Maintenance, and Monitoring
ORSANCO	Ohio River Valley Water Sanitation Commission

Acronym	Explanation
OSHA	Occupational Safety and Health Administration
OVS	OSHA Versatile Sampling
PCA	Principal Component Analysis
PFA	Perfluoroalkoxy
PFAS	Per- and Polyfluoroalkyl Substances
PFBS	Perfluorobutanesulfonic Acid
PFDA	Perfluorodecanoic Acid
PFDoA	Perfluorododecanoic Acid
PFHpA	Perfluoroheptanoic Acid
PFHxA	Perfluorohexanoic Acid
PFO	Perfluorooctanoate
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PFPrA	Perfluoropropionic Acid
PPA	Polymer Processing Aid
PSD	Public Service District
PT	Prior to Treatment
PTFE	Polytetrafluoroethylene
PWI	Polyacetal Waste Incinerator
PWS	Public Water System
QPR	Quarterly Progress Report
RBC	Risk-Based Concentration
RBL	Riverbank Landfill
RCRA	Resource Conservation and Recovery Act
RCRA 3013 Order	Administrative Order on Consent RCRA 3013(a) Order Requiring Monitoring, Testing, Analysis and Reporting
RFI	RCRA Facility Investigation
RL	Reporting Limit
RTC	Response to Comment
SB	Statement of Basis
SDWA	Safe Drinking Water Act
SWMU	Solid Waste Management Unit
TSCA	Toxic Substances Control Act
TWS	Transient Non-Community Water System
USACE	United States Army Corps of Engineers
UECA	Uniform Environmental Covenants Act
USDA	United States Department of Agriculture
USGS	United States Geological Survey
VI	Verification Investigation
VI WP	Verification Investigation Work Plan
VOC	Volatile Organic Compound
WVDEP	West Virginia Department of Environmental Protection
WVDHHR	West Virginia Department of Health and Human Resources
WWTP	Wastewater Treatment Plant

Executive Summary

This report documents the revisions and updates to the Conceptual Site Model (CSM) for The Chemours Company FC, LLC[1] (Chemours) Washington Works Facility (Site), located in Washington, West Virginia (Figure 1-1). An Administrative Order on Consent, the Resource Conservation and Recovery Act (RCRA) 3013(a) Order Requiring Monitoring, Testing, Analysis and Reporting (RCRA-HQ-2024-001; RCRA 3013 Order), effective December 20, 2023, requires Chemours submit to United States Environmental Protection Agency (EPA) an updated CSM, including data that have become available since the last CSM update, in accordance with EPA's systematic planning process (Environmental Cleanup Best Management Practices: Effective Use of the Project Life Cycle Conceptual Site Model, EPA 2011) within 75 calendar days of the Effective Date of the Order (Section V.48.). This report presents the updated On-Site and Off-Site CSMs for the Site completed in 2023 and includes key Site and other agencies' per- and polyfluoroalkyl substances (PFAS) results through 2023.[2]

In this report, information presented is summarized as follows:

- The geology, hydrogeology, and hydrology framework for the Site are summarized as follows. Silt, clay, and sand overlie an unconsolidated sand and gravel alluvial aquifer. Underlying this unconsolidated layer is weathered sedimentary bedrock, which is underlain by fractured bedrock.
- The pumping of high-volume, on-site production wells causes river water to recharge the alluvial aquifer.

[1] Effective February 1, 2015, the Performance Chemicals reporting segment of the E.I. du Pont de Nemours and Company completed a name and ownership change to The Chemours Company FC, LLC (Chemours). Chemours operated as a wholly owned subsidiary of DuPont until June 30, 2015. Effective July 1, 2015, The Chemours Company became a wholly independent publicly traded company; therefore, effective this date, the site is now under the operational control of Chemours. In this report, all references to work completed by DuPont refers to the E.I. du Pont de Nemours and Company that existed up until June 30, 2015.

[2] Note that in addressing EPA comments on the March 2024 submission of this report, additional relevant supporting information has been added including reports submitted to EPA between March 2024 and this submission in December 2024.

- Abatement technologies have been installed at the Site that have reduced the presence of PFAS in production well water use in the fluoropolymer manufacturing process, which has resulted in the reduction of PFAS discharge through process outfalls to the Ohio River.
- Additional abatement technologies are being installed, or are being planned for future installation, that will be designed to meet the requirements of the NPDES permit and an Administrative Compliance Order on Consent (ACO) to reduce PFAS concentrations in current air emissions and outfall discharges to the Ohio River. Ongoing PFAS sampling of the on-site sources and on-site and off-site environmental media will be used to understand the relationship between the reduction of PFAS in on-site sources and the change of PFAS concentrations in the on-site and off-site environmental media.
- RCRA CA investigations, which began in the early 1990s, and ongoing regulatory driven programs (the SDWA FAOC surveying and PFAS sampling of private and PWS drinking water program, CMI and ACO activities) have generated PFAS results over time that show that PFAS in on-site sources and in on-site environmental media have been reduced by up to several orders of magnitude. Under the SDWA FAOC, private and public drinking water sources with PFOA greater than the EPA 2016 HA of 0.070 µg/L are offered treatment by Chemours. Locations where GAC treatment systems are installed by Chemours are included in the Chemours ongoing OM&M program.

The updated On-Site CSM is summarized as follows:

- The information presented in this updated on-site CSM shows the framework for the on-site PFAS sources and the transport mechanisms and migration pathways from those sources to on-site environmental media and provides what is known regarding the presence and distribution of PFAS in on-site environmental media.
- The updated on-site CSM indicates that PFAS historically migrated and currently migrate from the Site fluoropolymer manufacturing process via air emissions and water discharges to the Ohio River, which are the primary sources of PFAS that can migrate to on-site environmental media. This does not rule out other pathways as being potential contributors. Secondary PFAS sources may be associated with equipment, material handling, leaks, and spills related to infrastructure.
- PFAS in Title V air emissions migrates to on-site surfaces via wet and dry deposition and via precipitation to stormwater then to soil and then to groundwater, or to on-site surfaces and via precipitation to stormwater and to the river water. PFAS in NPDES permitted process water and stormwater outfalls discharge to the Ohio River, and river water recharges the Site alluvial aquifer.

[3] Where used in this document, the term “air emissions” refers to Title V permitted air emissions and the term “discharges” or “water discharges” or “outfall discharges” refers to NPDES permitted discharges to the Ohio River.

Site groundwater and river water are used as process water for the fluoropolymer manufacturing processes at the Site.

- Historically the concentrations of PFAS released to on-site environmental media were higher than they are now because of several factors including the remediation of the Anerobic Digestion Ponds (ADPs) and consolidation of those materials under the Riverbank Landfill (RBL)/ADPs landfill cap, the installation of abatement technologies in the manufacturing process.
- The PFAS data presented in this report show that there are many PFAS that have been analyzed in on-site media within the past five years that are not detected above the reporting limits (RLs). PFOA and HFPO-DA are the primary PFAS detected above the RLs and are present at the highest concentration compared to other PFAS.

Data gaps that were identified while updating the On-Site CSM are as follows:

- The direction of flow between the alluvial aquifer and the underlying fractured bedrock at the Site is unproven and the presence and distribution of PFAS, other than limited results for PFOA, is unknown.
- The presence, handling, and use of common industrial articles of commerce that may contain PFAS, including sulfonate PFAS, at the Site is unknown.
- The evaluation of PFAS concentrations over time in select monitoring wells, production wells, and process and stormwater outfalls is identified here as a data gap.
- The presence and distribution of PFAS other than PFOA in Site soil are unknown.
- The presence and distribution of PFAS other than PFOA in process water from the Blennerhassett Island production wells have not been determined.
- Additional monitoring is needed to understand the presence and distribution of PFAS over time in the East Well Field header.

The updated Off-Site CSM is summarized as follows:

- The updated Off-Site CSM shows that two on-site sources of PFAS that have and continue to migrate to off-site environmental media include:
  - PFAS in air emissions, which can migrate to off-site surfaces and via precipitation to stormwater then to soil and then to groundwater, or to off-site surfaces including the Ohio River.

  - PFAS in process water and stormwater outfalls discharge to river water, and river water recharges PWS well fields adjacent to the river downstream of the Site.

The current understanding of off-site distribution of PFAS is based on the following data:

- PFOA results for environmental media sampled from within a two-mile radius of the Site in 2005 show the presence of PFOA in ambient air, rain, soil, groundwater, and drinking water is likely a result of the dry and wet deposition of Site air emissions. PFOA results for environmental media sampled from within a five-mile radius of the Site in 2011 show the presence of PFOA in soil, groundwater, drinking water, fish, and surface water used for cattle.
- PFOA concentrations in private drinking water are higher closer to the Site and to the northeast, and in general, decrease with increasing distance from the Site. However, the distribution of concentrations detected in drinking water also show that at some locations, PFAS concentrations are higher than those observed in adjacent locations.

Data gaps were identified while updating the Off-Site CSM:

- Resampling of soil and groundwater at the locations within the five-mile radius of the Site, which were sampled in 2011, for a longer list of PFAS, including PFOA, would allow for the continued evaluation of the presence of PFOA over time for some of those media and would allow for the determination of the presence and distribution of other PFAS in those environmental media.
- Sampling of surface water and associated sediment at locations within the five-mile radius is proposed to determine the presence and distribution of PFAS closer to the Site.
- Sampling of Ohio River sediments adjacent to the Site has not been performed and is proposed. If the presence of PFAS is determined to be relatively significant compared to PFAS from other transport pathways, then additional evaluation of other sediment-related media (such as suspended particles) may be proposed.
- The use, management, and disposal of PFAS-bearing articles of commerce by private drinking water well owners and evaluating this potential source is also identified as a data gap.

Activities to be conducted to fill the data gaps identified above for the On-Site and Off-Site CSMs will be proposed in the Sampling and Analysis Work Plan to be submitted within 90 calendar days of EPA's approval of these updated On-Site and Off-Site CSMs as required by Section V.48 of the RCRA 3013 Order.

It is important to note that there are several ongoing regulatory-driven PFAS monitoring programs on the Site that include sampling of monitoring wells, production wells, process water, and stormwater outfalls [i.e., CMI and the Clean Water Act Administrative Compliance Order on Consent (ACO)]. Further, the surveying and sampling of off-site private water supplies and PWSs is ongoing under the SWDA FAOC, in accordance with the terms and conditions contained in the FAOC. As new PFAS results are finalized for these programs, those data will be evaluated and used to continue to enhance and improve the On-Site and Off-Site CSMs.

1.0 Introduction

This report, the *2023 Updated Conceptual Site Model Report*, documents the revisions and updates to the Conceptual Site Model (CSM) for The Chemours Company FC, LLC[4] (Chemours) Washington Works Facility (Site), located in Washington, West Virginia (Figure 1-1). The CSM for the Site was developed in the mid-2000s based on perfluorooctanoic acid (PFOA) results for groundwater, drinking water, surface water, and cisterns at and around the Site and was first published in 2007 (Davis et al., 2007). The CSM was then updated in 2008 for the Data Assessments required by the 2005 Memorandum of Understanding between the United States Environmental Protection Agency (EPA) and the E.I. du Pont de Nemours and Company (DuPont), which owned and operated the Site at that time. The CSM was again updated by DuPont for the Correctives Measures Study in 2014 as part of the Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) Program for the Site, which cumulated in the implementation of Corrective Measures as described in the Final Decision and Response to Comments (FDRC) which was signed by West Virginia Department of Environmental Protection (WVDEP) on July 9, 2015, and detailed the selected remedy for the Site. An Administrative Order on Consent [RCRA 3013(a) Order Requiring Monitoring, Testing, Analysis and Reporting (RCRA-HQ-2024-001; RCRA 3013 Order)] effective December 20, 2023, requires Chemours submit to EPA an updated CSM including data that have become available since the last CSM update, in accordance with EPA's systematic planning process (Environmental Cleanup Best Management Practices: Effective Use of the Project Life Cycle Conceptual Site Model, EPA 2011) within 75 calendar days of the Effective Date of the Order (Section V.48). This report presents the updated on-site and off-site CSMs for the Site completed in 2023, which include key Site and other agencies' per- and polyfluoroalkyl substances (PFAS) results through 2023.

1.1 Purpose of the Conceptual Site Model Update

The purpose of the CSM update is to fulfill the requirement of Section V.48 of the RCRA 3013 Order, which is to generate and submit an updated CSM addressing data that have become available since the last CSM update, in accordance with EPA's systematic planning process (EPA, 2011). Data that have become available since the last CSM update (which was in 2014 and is provided in Appendix A) include the following:

- Data for other PFAS analyzed in addition to PFOA in on-site and off-site environmental media that were generated by Chemours.
- PFAS data for off-site environmental media generated by or for other regulatory agencies, such as EPA, the United States Geological Survey (USGS), and the Ohio River Valley Water Sanitation Commission (ORSANCO).

[4] Effective February 1, 2015, the Performance Chemicals reporting segment of the E.I. du Pont de Nemours and Company completed a name and ownership change to The Chemours Company FC, LLC (Chemours). Chemours operated as a wholly owned subsidiary of DuPont until June 30, 2015. Effective July 1, 2015, The Chemours Company became a wholly independent publicly traded company; therefore, effective this date, the site is now under the operational control of Chemours. In this report, all references to work completed by DuPont refers to the company that existed up until June 30, 2015.

1.2 CSM Evaluation Approach

The approach used by Chemours to update the CSM was to choose to focus on developing two separate CSMs, one for describing on-site sources migrating to on-site environmental media, and a second that describes on-site sources migrating to off-site environmental media. For the On-Site CSM, on-site sources, on-site migration pathways, on-site environmental media, and current on-site operating conditions such as production well treatment, manufacturing operations and inline PFAS treatment, wastewater treatment operations, drinking water treatment operations were more clearly depicted such that a PFAS emissions could be more specifically traced from origin to current position in on-site environmental media. For the Off-Site CSM, PFAS in Title V permitted air emissions and National Pollutant Discharge Elimination System (NPDES) permitted outfall discharges[5] from the Site are two on-site PFAS sources that migrate to off-site environmental media.

In addition, information on the presence and concentration of PFAS in the various on-site and off-site environment media was evaluated[6]. Prior to approximately 2018, the majority of environmental media sampled both on-site and off-site by DuPont (which owned and operated the Site until July 2015), and then by Chemours (which has owned and operated the Site after July 2015) was only analyzed for the PFO anion (the entity detected by the analytical instrument) and reported as ammonium perfluorooctanoate (APFO[7]) and/or PFOA (the disassociated form of APFO in aqueous solutions)[8]. Beginning in 2018, Chemours began to analyze select samples of on-site and off-site environmental media (predominantly drinking water, groundwater, process water and stormwater) for additional PFAS analyte lists using analytical methods, such as EPA Method 537, EPA Method 537.1, EPA Method 1633 Draft[9], and non-targeted analysis using liquid chromatography coupled to high resolution quadrupole time of flight mass spectrometry. Therefore, water PFAS data evaluated for this updated CSM are primarily the results finalized by Chemours within the past five years or less depending on when analysis of longer lists of PFAS began. However, for other non-water environmental media sampled only for PFOA (for example soil, air emissions, and produce), those data are included in this evaluation regardless of the results finalization date. In addition, as

[5] Where used in this document, the term “air emissions” refers to Title V permitted air emissions and the term “discharges” or “water discharges” or “outfall discharges” refers to NPDES permitted discharges to the Ohio River.
[6] Sections IV.25 and IV.26 of the RCRA 3031 Order include lists of documents submitted to EPA that contain details of the investigations completed, which are summarized here, and references for where additional information related to those investigations can be found. Key documents are referenced as appropriate in this report and are included in the reference list in Section 8.
[7] APFO was historically known as C-8 in the 1990s and the early 2000s. Information from documents from those time periods that used the term “C-8” and are referenced in this report will used the term “C-8” in discussions presented in this report.
[8] APFO in water produces the ammonium (NH4+) and perfluorooctanoate (PFO-) ions. During Liquid Chromatography/Tandem Mass Spectrometry analysis, the PFO anion is detected at the instrument, and PFOA and APFO results are calculated based on molecular weights. Analytical laboratories initially calculated and reported APFO results, then later calculated and reported both APFO and PFOA results, and currently calculate and report only PFOA results. Early results that only reported APFO were recalculated as PFOA results in the Chemours Environmental Information Management (EIM) database. PFOA results presented in this report may have initially been reported in previous reports as APFO depending on the date of the analysis.
[9] EPA Method 1633 is still in draft form, and samples will be analyzed using the version the laboratory is certified for in West Virginia.

indicated above, PFAS results for off-site environmental media generated by or for regulatory agencies were also evaluated. PFAS abbreviations used in this document are listed in Table 1-1.

Note that in this report, where appropriate, PFOA is used instead of PFAS. Where only PFOA results exist, the term PFOA is used in discussing those results. However, it is now believed that other PFAS were likely present, even if they were not analyzed via the method used at those times. In addition, it is likely that the PFAS associated with the use of PFOA as the fluoropolymer processing aid are different than the PFAS associated with the use of hexafluoropropylene oxide dimer acid (HFPO-DA) as the fluoropolymer processing aid, although there may be overlap in the two suites of PFAS. Therefore, where appropriate, the term PFAS is used. Where PFAS, meaning other PFAS than just PFOA or PFOA and HFPO-DA, were analyzed, individual PFAS are discussed, as warranted.

1.3 Report Organization

The remainder of this report is organized as follows:

- Section 2 provides the Site environmental setting, including the regional and local geology, geohydrology, and hydrology.
- Section 3 summarizes the PFAS use history for the Site and current PFAS process discharges.
- Section 4 describes the RCRA CA, Corrective Measures Implementation, and non-RCRA Corrective Measures.
- Section 5 provides the updated On-Site CSM, including information on on-site PFAS sources, transport mechanisms, and migration pathways to on-site environmental media and data on the presence and distribution of PFAS in those media.
- Section 6 provides the updated Off-Site CSM, including information on off-site PFAS sources, transport mechanisms, and migration pathways to off-site environmental media and data on the presence and distribution of PFAS in those media.
- Section 7 summarizes the updated On-Site and Off-Site CSMs and data gaps identified.
- Section 8 lists the references cited in this report.

2.0 Site Environmental Setting

The 1,200-acre Site is located along the Ohio River in Washington, West Virginia, approximately seven miles southwest of Parkersburg, West Virginia (Figure 1-1). The Site also includes part of Blennerhassett Island, which is located upstream of the plant in the Ohio River and is where one of several Site groundwater extraction well fields is located. Immediately to the south of the Site, on the south side of State Route 892 (also referred to as DuPont Road), is the closed Chemours Local Landfill, a heavily wooded and hilly 250-acre parcel with a 20-acre, closed solid waste landfill.

The Site is located in an area of industrial, commercial and residential land use with smaller amounts of farm use and one utility property (Figure 2-1) as per the Wood County Parcel Viewer (https://data.wvgis.wvu.edu/pub/Clearinghouse/planningLanduseCadastres/Parcels/WVGISTC_2023/CountySplits/) and the West Virginia Property Assessment portal (https://www.mapwv.gov/assessment/), which includes the definitions of the land use categories.

The utility (Monongahela Power) is located between the Site and US Route 50. Immediately adjacent to the south-western boundary of the Site are two commercial warehouses and the former Sabic Plastics (formerly General Electric Plastics) facilities and Braskem properties, which are now a mix of commercial, industrial and farmland use categories. A single residential property is located adjacent to the western corner of the Local Landfill and residential properties surround the perimeter of the Local Landfill to the southwest, south and southeast. Immediately to the east is the highway interchange for State Route 892 and US Route 50 (Robert Byrd Highway), which crosses the Ohio River and Blennerhassett Island prior to entering the state of Ohio. The northern side of the Site is bounded by the Ohio River, which flows from east to west, and the state of Ohio.

2.1 Regional Geologic and Hydrogeologic Setting

The Site is adjacent to the Ohio River, which is 981 miles long, starting at the confluence of the Allegheny and the Monongahela Rivers in Pittsburgh, Pennsylvania, and ending in Cairo, Illinois, where it flows into the Mississippi River. The flow of water in the Ohio River is controlled by a series of lock and dam systems, which have greatly changed the flow of the river, making the river muddier by creating a series of very slow-moving pools rather than a free-flowing river. Flood events in the river lead to elevated river stage, but the effect of the lock and dam system is to stabilize the river stage for barge traffic. The general topography encountered in this stretch of the Ohio River Valley includes the river channel, floodplains or terraces consisting of Quaternary alluvial sediments, and the steep valley walls of the Permian-aged Dunkard Group. The Quaternary alluvial terrace sediments include primarily unconsolidated river deposits of poorly to well sorted, brown and gray sand, silts, clay and gravel. The Dunkard Series bedrock consists primarily of red and varicolored sandy shale; gray, green and brown sandstone; and minor beds of coal, claystone, black carbonaceous shale and limestone. The regional bedrock structure slopes to the east at about 25 feet per mile and is controlled by the north-south trending Parkersburg syncline (DuPont, 1992).

The facies of the Ohio River Alluvium formed in response to the glacial advances and retreats of the pre-, early-, and late-Wisconsinan and were deposited as successive phases of erosion and sedimentation of river valley alluvial materials. The coarse-grained Pleistocene alluvium was deposited as glacial outwash during the primary valley

aggradation event following the glacial scouring of the valley into the bedrock floor. During the subsequent erosion and sedimentation cycles of the Pleistocene, the glacial outwash sediments were partially removed, re-worked, and then redeposited to a lower elevation than the previous cycle, thus forming successively lower terraces. This process formed a series of Pleistocene-aged terrace surfaces within the Ohio River Valley (Figure 2-2). These surfaces were designated (youngest to oldest) as S4, S5, and S6 by Simard (1989). With each subsequent erosion and sedimentation cycle, additional fines were incorporated into the Pleistocene deposits due to continual influx of finer-grained fluvial sediments from tributaries of the Ohio River. As a result, the Pleistocene deposits become more highly re-worked and progressively finer-grained toward the center of the river valley, particularly in locations down-stream of significant tributaries (Simard, 1989). Simard (1989) also identified three minor facies of the Ohio River Alluvium including tributary deposits (silt, sand, and gravel), colluvial deposits (coarse sand, gravel, cobbles, and boulders), and eolian sand and silt deposits.

Regional groundwater supplies are obtained from the Ohio River alluvial terrace deposits and the Dunkard Group fractured bedrock. The saturated portion of the highly permeable sediments of the alluvial terraces comprise the principal regional aquifer for water supply purposes and supplies several of West Virginia's and Ohio's largest public water supply systems. Production wells completed in this aquifer have been known to yield up to 500 gallons per minute (gpm) (Schultz, 1984). Based on these high yields, numerous industrial and commercial water supply companies obtain water from the alluvial aquifer. Water from the alluvium generally is a calcium bicarbonate type with near neutral pH and high dissolved solids content, and tends to have high chloride, sulfate, hardness (as calcium carbonate), iron, and manganese concentrations (Schultz, 1984). The Dunkard Group bedrock only yields enough water for domestic and farm use. Median yields for valley, hillside and hilltop wells were 6.5, 2.0, and 3.9 gpm, respectively, and, except for a localized areas where fractures are plentiful, there is little potential for higher well yields (Schultz, 1984).

2.2 Site-Specific Geologic Setting

The Site rests on Quaternary alluvial sediments that overlie the Permian-aged Dunkard Group. The two predominant facies of the Ohio River alluvium that have been identified include coarse-grained Ohio River Alluvium (Pleistocene-aged glacial outwash deposits) and fine-grained Ohio River Alluvium [Holocene overbank deposits (Simard, 1989)].

The total thickness of Pleistocene sediments at the Site ranges from about 80 feet beneath the highest Pleistocene terrace surfaces to about 15 feet beneath the current channel of the Ohio River. Figure 2-3 provides a cross-section location map for the Site. Figures 2-4 through 2-6 show three cross sections through the Site essentially perpendicular to the Ohio River. These three cross sections were developed based on the geological units depicted in cross sections generated for the Verification Investigation (VI) and RCRA Facility Investigation (RFI), reproduced in the Data Assessments (DuPont, 2008) and provided in Appendix B. Test pit logs, soil borings, and well logs used to generate these cross sections are also provided in Appendix B[10]. Figure 2-7 shows a cross section perpendicular to the Ohio River that extends from the Site through the river to the alluvial terraces on the Ohio side of the river.

[10] Note that Appendix B includes the much of the same supporting information as was provided to EPA on September 16 and 25, 2024.

The Holocene sediments consist primarily of interbedded and laminated silt, clay, and fine-grained sand. These fine-grained Holocene sediments were deposited on the surface of the Pleistocene terraces as well as on a series of more recent floodplains, which formed in the center of the Ohio River Valley during the Holocene. The thickness of the Holocene sediments at the Site typically ranges from approximately 5 to 20 feet over the Pleistocene terrace surfaces and approximately 25 to 50 feet over the Holocene floodplains. The Ohio River deposits consist primarily of coarse-grained sand and gravel and the thickness of the alluvial sediments ranges from approximately 80 to 100 feet. The Dunkard Group (bedrock) lies at approximately 90 to 120 feet below ground surface (bgs). The Dunkard Group at the Site consists of greyish-green, fine to medium sandstone with interbedded reddish-brown clay and greyish-green siltstone, dark brown shale, and light grey medium to coarse sandstone and shale.

2.3 Site-Specific Hydrogeology and Hydrology

Three hydrologic units have been identified at the Site. Within the shallow Holocene sediments are silts and clays, which support localized zones of groundwater. Deeper down, in the older alluvial sediments, is the Ohio River alluvial aquifer, which is the primary water table aquifer. Lastly, underlying the alluvial aquifer is the Dunkard Group bedrock.

2.3.1 Holocene Sediment Groundwater

Along the southern riverbank at the Site are several monitoring wells (N04-MW02, M04-MW02, M04-MW03, P04-MW02, R04-MW02, and U04-MW01[11]) that are completed in the interbedded and laminated silt, clay, and fine-grained sand within the Holocene sediments. Groundwater elevations in monitoring wells in the Holocene sediment groundwater are frequently higher than elevations measured in monitoring wells completed in the underlying alluvial aquifer but are equal to or lower than the normal pool elevation of the Ohio River of 582 feet above North American Vertical Datum of 1988[12] (see the groundwater elevation maps in Appendix C). Note that several of these wells have been abandoned (see Section 4.1.3 for details). Seeps and springs were historically observed and noted in the Verification Investigation (1991-1992) and in the RFI (1997-1999) reports. These seeps were observed in the riverbank and were interpreted to be a result of precipitation infiltrating through the cover soil into the Riverbank Landfill materials and temporarily accumulating and flowing within the shallow overbank deposits and then discharging along the riverbank. Prior to consolidation and capping of the Riverbank Landfill, the water in these seeps and springs may accurately have been described as perched water. However, seeps are no longer observed in the riverbank subsequent to the capping of the landfill in 2012.

[11] Upon further review of the water level data reported for wells screened in Holocene sediments that were historically classified as perched water, these wells are screened in the silt, sandy silt, clay, silty clay, or clayey silt of the Holocene overbank deposits and have been reclassified as shallow Holocene wells. Note that in the tables reproduced in Appendix C, these wells are still identified as perched water.
[12] The Ohio River adjacent to the site is within the Belleville Dam project pool see page 169 of *Ohio River Navigation Charts Foster, Kentucky, to New Martinsville, West Virginia*. US Army Corps of Engineers. https://www.govinfo.gov/content/pkg/GOVPUB-D103-PURL-gpo56564/pdf/GOVPUB-D103-PURL-gpo56564.pdf.

2.3.2 Alluvial Aquifer

The alluvial aquifer near the Ohio River, which is the primary water-table aquifer in the area, occurs within unconsolidated Holocene and Pleistocene alluvium. Depth to water at the Site is approximately 60 to 70 feet bgs. The saturated zone is approximately 30 to 40 feet thick, extending to the surface of the underlying Dunkard Group bedrock. Numerous monitoring wells have been installed in the alluvial aquifer and several pumping tests have been completed as part of water supply investigations. The hydraulic conductivity of the alluvial aquifer in the area typically ranges from 100 to 300 feet/day (DuPont, 2003). Carlston and Graeff (1956) observed that in a test of 19 wells completed in the Ohio River alluvium in West Virginia, transmissivity of the aquifer ranges from 130 to 1,750 square feet per day (ft^2/day) with an average saturated thickness of 25 feet between Parkersburg and Point Pleasant, while Kozar and Mathes (2001) observed transmissivity ranging from 540 to 59,000 ft^2/day for the Ohio River alluvium and a median storage coefficient of 0.20 indicative of an unconfined aquifer. Other mean transmissivities reported include 750 ft^2/day (DuPont 2003), 4,200 (Mathes and Others, 1995) and 7,500 ft^2/day (Burgess and Nipple, 1996). The USGS (Kozar and McCoy, 2004; see Appendix D) modeled the groundwater flow in the Ohio River alluvium near the Site using porosity values ranging from 0.3 to 0.35.

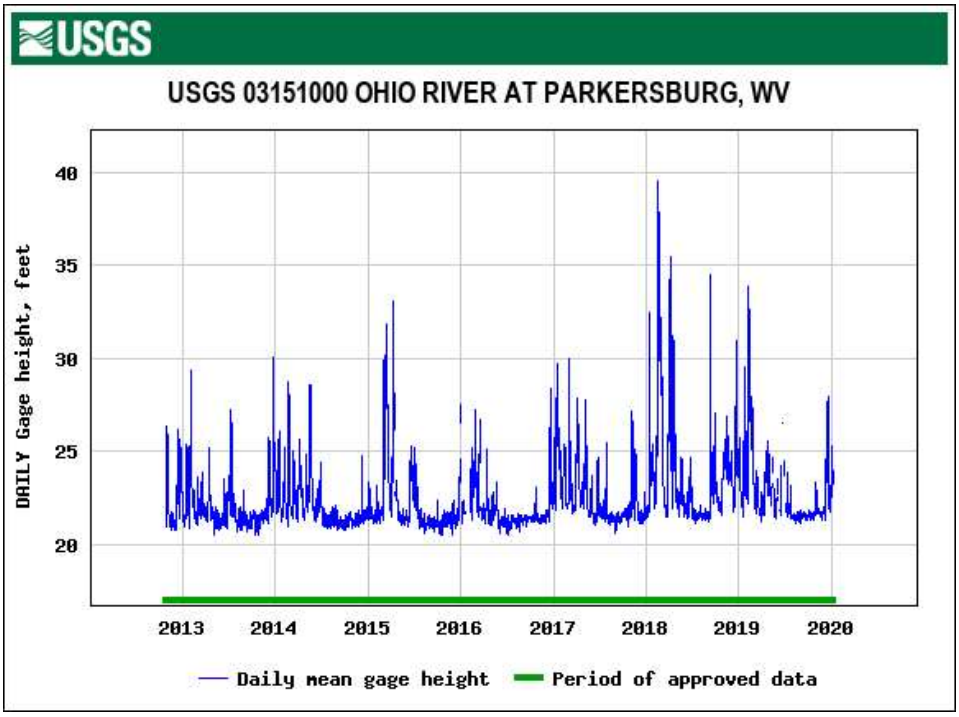
Sources of Water to the Alluvial Aquifer

Natural recharge to the alluvial aquifer comes from various sources, including the following:

- Infiltration of precipitation falling directly on the alluvium
- Lateral movement of water from the Ohio River through the alluvium
- Seepage from stream tributaries that discharge to the Ohio River
- Surface runoff from the outcrop areas of the Dunkard Group, which form steep slopes adjacent to the uppermost Pleistocene terrace.
- Permeable/impermeable surfaces

Gage elevation of the Ohio River is maintained by the lock and dam system that is intended to provide stable navigational conditions for river traffic. While there is the potential for upward variation in the river elevation (high rainfall will lead to increased river stage), the lock and dam system maintains a stable minimum river stage[13], as shown in the following graph.

[13] USGS, USGS 03151000 OHIO RIVER AT PARKERSBURG, WV. https://waterdata.usgs.gov/nwis/dv?cb_00065=on&format=gif_default&site_no=03151000&legacy=&referred_module=sw&period=&begin_date=2012-01-05&end_date=2020-12-04



As shown on the chart, the elevation of the Ohio River relative to the gage is typically about 21 feet above the gage datum of 560.60 feet NAVD88[14]. Therefore, the typical elevation of the river is approximately 581.6 feet. The elevation of the river can periodically rise during flood events, but the river has not dropped below 20 feet above gage during the period for which data are available.

Table 2-1 provides the depth to groundwater measurements and resulting elevation data for the site from the first half 2023 sampling event. These measurements are similar to others that have been collected at the facility (see the groundwater potentiometric surface maps in Appendix C). On Table 2-1, only well U04-MW01 (a shallow Holocene well) is above the elevation of the Ohio River. The other groundwater elevations are lower than the river indicating an inward hydraulic gradient.

In addition, stormwater at the Site from impermeable surfaces may migrate to permeable surfaces and recharge the alluvial aquifer. Additional information on stormwater migration at the Site is included below in Section 2.4.

Page's Run is an intermittent, ephemeral stream that originates at the Local Landfill to the south of the Site, then crosses the southwest corner of the Site and then crosses onto the adjacent former industrial property to the southwest of the Site and discharges surface water to the Ohio River. Page's Run is typically dry throughout the summer months, and the elevation of groundwater near Page's Run is below the elevation of the creek bed suggesting that it is a losing stream.

Known Uses of Groundwater in the Area

Groundwater from the alluvial aquifer is extracted for private drinking water supplies, public drinking water supplies, industrial use and agricultural use. Between Marietta (19.3 miles upstream of the Site) and Hockingport (7.7 miles downstream of the Site),

[14] Gage datum is 560.60 feet above NAVD88 per https://waterdata.usgs.gov/nwis/inventory/?site_no=03151000&agency_cd=USGS.

Chemours has identified private drinking water wells and public well fields that are located within the alluvial terraces along the Ohio River. Additional information on the private and public drinking water use is provided in Sections 4.3.1 and 6.3.1.

Withdrawals of Water from the Alluvial Aquifer

The Site has many production wells, including the following:

- Gallery Well, which draws water from below the Ohio River riverbed
- Ranney Well, which draws water from the alluvial aquifer below the riverbed
- Production wells in the west well field and the East Well field, which draw water from the alluvial aquifer
- Productions wells in the Blennerhassett Island Well Field, which draw water from the Ohio River through the saturated sediments under the island.

Water extracted from production wells on the Site and from the Blennerhassett Island well field (which are identified in Figure 2-8) is used for various purposes, including the fluoropolymer manufacturing processes at the Site:

- Water from the seven wells in the East Well Field, the four[15] wells in the West Well Field, the Gallery Well, and the 12 wells in Blennerhassett Island Well Field are untreated prior to use at the Site. Waters from these production wells are used for process water, for producing demineralized water, and for non-contact and contact cooling water for the fluoropolymer manufacturing processes.
- Well 336, also identified as AM07-PW01, is a production well in the East Well Field that is used for the Site potable water. Water from this well is the feed to the Site potable water granular activated carbon (GAC) treatment system. Treated water is then piped throughout the Site for potable water use.
- The Ranney Well is a production well for which a GAC treatment system became operational in November 2021 to reduce the concentrations of PFAS in process water for the fluoropolymer manufacturing processes. Additional details regarding this GAC treatment system are provided in Section 3.4.

The table below shows the most recently reported average daily withdrawal rate for on-site wells and well fields for each month in 2022 and the 2022 monthly average.

Month	Average Daily Withdrawal Rate (gallons per day)
January	4,531,613
February	5,168,243
March	6,479,500
April	6,832,457
May	6,681,048
June	6,274,133
July	6,188,487
August	6,338,458
September	6,283,080
October	6,170,126
November	6,005,693
December	5,487,777
2022 Monthly Average	**6,036,718**

[15] One of the five existing production wells in the West Well Field collapsed in 2003 and was abandoned.

Figure 2-9 provides the 2022 average production well or well field flows. This chart shows that in 2022 the Blennerhassett Island well field and East Well Field production wells contributed approximately 75% of the water used at the Site while approximately another 15% comes from the Gallery Well, the West Well Field and well 336. The remaining approximately 10% of the water came from the Ranney Well, which has a GAC treatment system prior to use as process water for the manufacturing plant and to support NPDES outlets permit requirements.

Groundwater Flow Direction

As part of RCRA Corrective Measures Implementation, synoptic groundwater elevation measuring events occurred quarterly in 2019 and 2020 and now occur semiannually. These quarterly and semiannual groundwater surface maps from 2019 through 2022 are provided in the annual Corrective Measures Assessment reports and are provided here in Appendix C along with historical groundwater surface maps and data tables. Table 2-1 provides the groundwater elevation measurement for the first half 2023, and the first half 2023 semiannual groundwater surface map is provided as Figure 2-10. This figure shows river recharge of the alluvial aquifer and cones of depressions around the production wells that are pumping on-site flow of off-site groundwater from the west and from the south. Groundwater elevations shown on the cross sections in Figures 2-4 through 2-6 are based on this groundwater elevation surface map and the data in Table 2-1. As shown on Figure 2-10 and figures in Appendix C, the water table in the alluvial aquifer is lower than the elevation of the Ohio River.

In 2003, DuPont revised and expanded a steady-state model developed in 1999 to evaluate groundwater flow at and near the Site, to model current Site and regional groundwater flow pathways under current (at that time) pumping conditions and to predict future groundwater migration pathways under various pumping scenarios (DuPont, 2003, included in Appendix D). To support this effort, in 2002 a synoptic groundwater elevation measuring event was completed that included both on-site and off-site production and monitoring wells in both West Virginia and Ohio (DuPont, 2003). During key stages of this model development, meetings were held with experts from EPA, USGS, and the United States Army Corps of Engineers (USACE) to review the modeling and to provide feedback. Figure 2-11 provides the modeled alluvial aquifer groundwater elevation contour map for the Site for current pumping conditions at that time. This figure shows that the water table elevations in the alluvial aquifer are lower than the Ohio River. This figure also shows that while the Site capture zone extends into the Ohio River, the current pumping conditions at the Little Hocking Water Association (LHWA) well field (located immediately in Ohio across the Ohio River from the Site (Figure 2-11) cause similar river water recharge. With few exceptions (typically U04-MW01), the groundwater elevations for Site wells shown on the figures in Appendix C are lower than the Ohio River elevation. An independent peer-reviewed and published modeling effort by the USGS (Kozar and McCoy, 2004; see Appendix D) developed in 2003 which includes the Site and adjacent areas, depicted a groundwater elevation map that is essentially the same as the one shown in Figure 2-10.

2.3.3 Dunkard Group Bedrock

and except for localized areas where fractures are plentiful,

there is little potential for higher well yields (Schultz, 1984). Note that construction details and purpose of these wells are not available.

The hydraulic conductivity of the Dunkard Group bedrock aquifer is between 0.02 and 5.6 feet/day and is strongly influenced by the presence of fractures (Table 2-2). Surficial clay and weathered shale at the adjacent Local Landfill were found to have a very low average hydraulic conductivity of 5×10^{-7} centimeters per second (cm/sec) (0.00142 feet/day) (Ellis, 1990). Competent bedrock permeability was also found to be low at about 1×10^{-5} cm/sec. These hydraulic conductivity estimates are significantly lower than those reported for the alluvial aquifer (100 to 300 feet/day - see Section 2.3.2).

Based on the limited data available, there appears to be an upward gradient from groundwater in the fractured bedrock underlying the Quaternary alluvium under the western two thirds of the Site and a downward gradient under the eastern portion of the Site. However, the groundwater model (DuPont, 2003) predicted an upward gradient from the bedrock to the overlying alluvial aquifer within most of the modeled domain, with the highest gradient predicted near pumping wells..

While Chemours believes it to be much more likely that there is an upward gradient from the underling fractured bedrock into the overlying alluvial aquifer at the Site, Chemours proposes the following to fill this data gap:

- Additional bedrock monitoring wells will be installed in well clusters with select existing alluvial aquifer monitoring wells on-site.
- Groundwater elevation measurements will be collected to evaluate the direction of groundwater flow.

2.3.4 Preliminary Water Balance Estimate

As part of an effort with the facility regarding the potential to extract additional groundwater for production purposes from the Ranney Well, a preliminary water balance calculation was performed by gathering available, measurable flows and calculating other flow estimates using simplifying assumptions. These flow volumes were estimated on an annualized basis. Appendix E provides the preliminary water balance estimate, which was submitted to EPA as an attachment in the October 17, 2024 response to comments letter. The first 16 pages of the attachment provide a review of data sources, and the last two pages are the step-by-step calculations.

- Measured parameters included the following:
  - Flows from groundwater production wells. The flow data were found in annual water use reports. Because the purpose was to support the Site with evaluating current extraction potential, flow data from the 2022 and 2023 water use reports were used.
- Estimated parameters included the following:
  - Precipitation and Evapotranspiration: The data are from United States Department of Agriculture (USDA) sources. A range of precipitation was considered and calculated. For evapotranspiration, an “actual” evapotranspiration estimate from USDA was used, but this was only applied to the vegetated acreage (this assumes all precipitation landing on impermeable areas runs off).

- Infiltration: Infiltration was estimated using input from the 2003 Model Report. Infiltration was also not applied to paved areas, which were assumed to generally run off.
- Runoff: Runoff was calculated as being the precipitation that lands on impervious surfaces and includes the excess water that did not either infiltrate or evapotranspire.

The level of certainty in the estimated values is limited because of both the variability of rainfall events and the wide range of soil conditions at the site.

Page 13 of Appendix E is the graphic flow chart of the preliminary water balance. Flows are expressed in acre-feet per year because that was the unit used for the estimated values. The two originating sources and sinks of water shown are the atmosphere and Ohio River. Based on the USDA data, the volume of precipitation to the site property was calculated to be 1,174 to 1,658 acre-feet per year (calculated as precipitation in inches per year multiplied by the acreage of the site). Evapotranspiration was calculated to remove approximately 591 acre-feet per year. The remaining precipitation is assumed to either infiltrate (194 acre-feet per year) or run off (389 to 872 acre-feet per year).

The estimate of Ohio River infiltration is an assumed calculation based on the following logic:

- Infiltration of precipitation is approximately 194 acre-feet per year. Even if all precipitation infiltrated into the aquifer that would still be less than half of the flow removed by the on-site extraction well fields (3,360 acre-feet per year).
- Because infiltration of precipitation does not account for all water being removed by the well fields, the remaining water is expected to be coming from another source, either bedrock, which has low estimated permeability, or from infiltration of water from the Ohio River into the alluvial aquifer. In the water balance, the assumption is that the shale bedrock contribution is minor relative to infiltration from the river. This contribution can be re-evaluated when the data gaps related to bedrock are filled.

Process water that is extracted from the alluvial aquifer is discharged to process outfalls (ignoring evaporative losses in the calculation), which discharge to the Ohio River. Some water from the Ohio River is directly withdrawn by surface intakes. As noted above, relative water elevations and modeling indicate that some Ohio River water is infiltrating to the aquifer to replace what is being removed by the well fields. As shown on the flow chart on page 13 of Appendix E, this forms a “continuous recirculation loop” in which water is extracted from the alluvial aquifer and discharged via outfalls, mixing with the flow of the river, and then some water from the river is concurrently being drawn back into the alluvial aquifer.

2.4 Updated Topography, Stormwater Basins Map and Permeable/Impermeable Surfaces Map and the Stormwater Model

An aerial survey of the Site was performed in April 2019, and the orthorectified imagery was used to generate topographical contours of the Site to its property boundaries. The updated topography was used in the development of the cross section provided as Figures 2-4 through 2-6.

The mapped site limits were then subdivided as preliminary maps based on the individual outfall areas, and high-resolution basin and sub-catchment maps for each Outfall were prepared as are depicted in Figure 2-12. In addition, the aerial photograph was evaluated to develop maps of permeable/impermeable surfaces. Field staff provided support to verify interpretations from the aerial photographs. Further, infrastructure drawings were evaluated to develop a map of piping and inlets. This was combined with the basin/sub-catchment maps and the permeable/impermeable surfaces map, and a stormwater model for the Site was developed that is being used to increase Site understanding of flow and volume of stormwater during precipitation events and support meeting NPDES permit PFAS limits and enhance the CSM for the Site. Model calibration is ongoing.

2.5 Summary Observations on the Environmental Setting

The observations on the environmental setting are summarized as follows:

- The geology, hydrogeology, and hydrology framework for the Site is documented here.
- Terraces of silt, clay, and sand overlie the Site alluvial aquifer, which consists of unconsolidated sand and gravel. Underlying this is weathered bedrock and bedrock consisting of shale and sandstone. Hydraulic conductivity in the alluvial aquifer is significantly higher than in the bedrock.
- USGS data show that the river elevation can increase above normal elevations but does not decrease below 582 feet (the pool elevation of the Ohio River). As shown in the water elevation maps in Appendix C, groundwater elevations in the alluvial aquifer are, with very few exceptions, consistently lower than 582 feet.
- Water elevations in the Site alluvial aquifer are lower than the river due to the pumping of high-volume on-site production wells. The amount of water being removed annually is higher than can be explained by infiltration of rainfall. Assuming that this volume of groundwater is not coming from the bedrock (shale and sandstone), then it is attributed to infiltration of river water recharging the alluvial aquifer. These production wells run continuously for Site use, supporting the assertion that there is a consistently inward hydraulic gradient preventing discharge of Site groundwater from the alluvial aquifer to the river.

One data gap was identified in this section, which is understanding the direction of flow at the Site between the alluvial aquifer and the underlying bedrock.

3.0 Site PFAS Use and Management

3.1 Overall Site Land Use and Operations History

The 1,200-acre Site is located along the Ohio River in Washington, West Virginia (see Figure 1-1), approximately seven miles southwest of Parkersburg, West Virginia. Originally, the land at the Site was used for agricultural purposes. The initial manufacturing units constructed at the Site were completed in 1948. Since the Site opened, it has expanded to include manufacturing of hundreds of products for the automotive and construction industries. The Site has produced a variety of products including the following:

- Compounded engineering plastics
- Nylon molding pellets and filaments
- Acrylic molding compounds
- Polyvinyl butyral
- Acrylic resins
- Fluoropolymers
- Polyacetal products

DuPont owned and operated the Site until July 2015 when the Site transferred to Chemours. Currently, the manufacturing operations reside on about 200 acres of the Site and span approximately a mile along the Ohio River. The Site has 13 operating and service divisions, including DuPont de Nemours, Inc. (New DuPont)[16] and Kuraray Co. Ltd. (Kuraray), which are tenant divisions with Chemours as the landlord as of 2022. Subsequently, New DuPont sold their operations to Delrin USA LLC and Celanese Corporation. Figure 3-1 shows where the Chemours, Delrin USA LLC/Celanese Corporation, and Kuraray production areas reside on the Site. The Chemours fluoropolymer and fluorotelomer manufacturing areas are located on the north-western side of the Site as shown in Figure 3-2 and produce several important commercial products including:

- TFE and HFP Monomers
- TELOMERS
- TEFLON™ perfluoroalkoxy (PFA) resin and dispersions
- TEFLON FEP resin & dispersions
- TEFLON PTFE resin & dispersions
- TEFLON PTFE granular molding resins

[16] In December 2015, Dow and E. I. du Pont de Nemours and Company announced a merger for the purpose of creating three new companies. In June 2019, the three companies completed their separation and are now known as Dow, DuPont de Nemours, Inc. (referred to in this report as New DuPont), and Corteva Agriscience LLC. In this report, E. I. du Pont de Nemours and Company (the original DuPont Company) completed all work prior to February 1, 2015. DuPont de Nemours, Inc. does not perform remediation efforts at the Site.

3.2 PFAS Use in Site Fluoropolymer Manufacturing

PFOA (CAS number 335-67-1) is a disassociated form of APFO (CAS number 3825-26-1, historically known as C-8 or FC-143) and other salts. APFO has been used in the fluoropolymer manufacturing processes as a polymer processing aid (PPA) at the Site since the early 1950s. Powdered (dry) APFO was used in the fluoropolymer manufacturing processes until the late 1980s. Liquid APFO (an aqueous solution of APFO) was used after the late 1980s. After 2000, the APFO used at the Site was produced at DuPont (now Chemours) Fayetteville Works. APFO in an aqueous solution, which forms PFOA, was used until 2012 when the Site began the transition to HFPO-DA, which was completed by 2013. HFPO-DA, known generically as GenX, used at the Site is produced at the Chemours Fayetteville Works.

3.3 Permitted Air Emissions and Discharges and PFAS Monitoring

The Site operations are subject to Clean Air Act and Clean Water Act applicability and has Title V air permits and a NPDES (permit number WV0001279) water discharge permit. The Site NPDES permit currently contains a list of requirements for the acceptance and treatment of wastewater by Chemours from Site tenants.

The NPDES permit includes discharges of industrial water (treated and untreated), stormwater, non-contact and contact cooling water, utilities (steam condensate, pump

seal water, and boiler blowdown), and groundwater infiltration to the Ohio River. There are six outfalls that discharge process water (and stormwater during storm events) which are shown in Figure 2-8. The six process water outfalls (001, 002, 003, 005, 006, and 007) include a variety of types of water discharges from Chemours and tenant operations. Table 3-1 provides a summary of the specific sources of water to each of the six outfalls. There are 13 stormwater only outfalls, which are also shown in Figure 2-8. Figure 2-12 shows the catchments and subbasins drained by each of these stormwater outfalls.

The Site's previous permit (effective September 3, 2003) included monitoring requirements for the discharge of PFOA into the Ohio River; the permit (effective September 1, 2021) included numeric limits for the discharge of PFOA and HFPO-DA and monitoring of nine other PFAS. However, Modification No. 3, effective in the second quarter of 2019, requires additional outfalls be sampled for additional PFAS as shown in Table 3-2.

3.4 PFAS Abatement Technologies

Chemours fluoropolymer manufacturing operations at the Site (Figure 3-2) currently include:

- Fine Powder Process
- Polytetrafluoroethylene (PTFE) Dispersion Process
- Fluoroethylene Propylene (FEP) Process
- FEP Dispersion Process
- Granular Process
- PFA Process K
- PFA Dispersion Process
- Telomer Area
- Monomer Area

Table 3-3 provides a summary of the product type, product applications, emission sources (air emissions or solid and or liquid wastes) and abatement technologies installed.

When DuPont transitioned to HFPO-DA in the 2012 to 2013 timeframe, additional abatement measures were installed. The key project, referred to as W-9, was a series of GAC treatment units installed in the process area. In addition, to reduce overall treatment volumes, more process wastewater was sent for recovery at the Site.

Because the Site uses HFPO-DA as a processing aid in the fluoropolymer manufacturing process, it is not intended to be present in the produced fluoropolymers. The Site is designed to remove the produced fluoropolymers from the polymerization media containing HFPO-DA and send produced wastewater containing HFPO-DA to the wastewater treatment system and then to discharge to the Ohio River via Outfall 005. Current waste streams from the manufacturing of dry products include solid wastes from the mechanical filter (which filters the wastewater to remove the solids) and filtered wastewater. In addition, miscellaneous solid wastes from the manufacturing process are also generated. The filtered solids and the miscellaneous solid wastes are incinerated at a permitted facility off-site. The filtered wastewater goes through an on-site carbon

treatment system to remove the PFOA and HFPO-DA. The treated waste streams then discharge through Outfall 002 to the Ohio River.

Well water prior to its use in the fluoropolymer manufacturing processes. Water extracted from production wells on the Site and from the Blennerhassett Island well field (which are identified in Figure 2-8) is used for various purposes including the fluoropolymer manufacturing processes at the Site. Site groundwater contains PFAS; therefore, process water obtained from on-site production wells also contains PFAS prior to its use in fluoropolymer manufacturing. Construction of a 1,750 gpm treatment system for the Ranney well was completed by November 2021. The purpose of the treatment system was to remove PFAS prior to use as process water for the manufacturing process and to support NPDES outlets permit requirements. The objective was to remove PFOA and HFPO-DA with GAC and have pretreatment to greatly reduce concentrations of manganese, iron, and suspended solids. The project installed pretreatment process equipment for chlorination and sand filtration, and GAC filtration for PFOA and HFPO-DA removal. The project scope included the following:

- Replacing the existing Ranney Well pumps and routing new piping to and from the new treatment facility.
- Installing sodium hypochlorite (NaOCl) solution tanks and an injection system for oxidizing iron and manganese, and for disinfection prior to distribution.
- Installing Greensand+ filters to remove manganese, iron, and suspended solids.
- Installing two sets of Calgon model 12-40 GAC filters in parallel to remove PFAS and other organics.
- Installing a filter backwash system including a new holding tank.
- Installing sand drying beds to filter and capture the suspended solids from the backwash water.
- Erecting a new structure to house the Greensand+ and GAC filters.

The project was successfully completed in time for the regulatory compliance schedule in November 2021. The Site now conducts routine monitoring and GAC change-outs as part of normal site operations. Table 3.4 provides the results from the GAC treatment of the Ranney well that goes into the process water header to the plant. Table 3.4 also provides results for the polish GAC filters, which are additional carbon filters installed after the treated Ranney water in September 2024 on piping specifically for use in the PFA Line 2 manufacturing process. Table 3.4 shows that the GAC treatment system and the polish GAC treatment filters effectively removes PFOA and HFPO by four orders of magnitude from the process water prior to use (generally to less than 20 or 50 parts per trillion or 20 or 50 nanograms per liter [ng/L]) compared to the raw water PFOA and HFPO-DA concentrations. For the Ranney Well GAC treatment system, carbon in the lead bed is replaced when the discharge reaches 50% of the raw water concentration.

The lead bed with the new carbon then becomes the lag bed, and the lag bed is then moved into the lead bed position. Reductions in PFOA resulting from the GAC treatment installation have resulted in reductions of PFOA concentrations discharging via outfalls to the Ohio River. Figure 3-3 provides graphs of PFOA and HFPO-DA concentrations over time in Outfalls 002 and 005. Outfall 002 discharges process water from the fluoropolymer manufacturing area, while Outfall 005 discharges water from the wastewater treatment plant, which includes process water from the fluoropolymer manufacturing area, and discharges the largest volume of water of the six Outfalls. In Figure 3-3, PFOA over time are shown on the left side of the figure and HFPO-DA over time are shown on the right side of the figure. Where two graphs are shown, the second graphs are expanded views of the first graphs. Note that the date range and concentration scale are unique to each chart. In these charts, the transition from PFOA to HFPO-DA is indicated, as well as the Ranney Well GAC system installation.

Chemours also began a program of installing tertiary abatement systems to reduce HFPO-DA in air emissions at the Site. Examples include adding GAC treatment to the Fine Powder and PFA Process K in the past three years.

EPA issued an Administrative Compliance Order on Consent (ACO) under Section 309(a) of the Clean Water Act, 33 U.S.C. § 1319(a) to Chemours on April 5, 2023. Section III.44. requires Chemours to implement the Sampling Plan (Exhibit 3 of the Order) to characterize the nature of the stormwater runoff and effluent wastewater leaving the Site by conducting specified PFAS sampling to identify and quantify PFAS discharges at each permitted Outlet[17] using draft EPA Methods 1621 (for absorbable organic fluorine) and 1633, total oxidizable precursor assay and non-targeted analysis. In August 2024, Chemours submitted the report that contained the results for the stormwater runoff and effluent wastewater sampling event (see Appendix G). In summary, the new results show similar trends in the presence and distribution of PFAS in those samples compared to other process water and stormwater data presented in this report in Section 5.3.6. For the NTA results, only one of the 20 samples, a stormwater sample collected at Outlet 016, showed the presence of suspect analytes, and only one suspect analyte was identified. Nineteen of the 20 process water effluent and stormwater outlet samples were shown to have no non-targeted compounds identified, which indicated that there are no unknown PFAS or precursors present in these samples at the level of detection for the method. The results for those stormwater and process water samples are discussed in more detail in Section 5.3.7 along with the results of an earlier NTA data set.

Further, Section III.46 of the ACO requires Chemours to submit an Alternatives Analysis and Implementation Plan for the treatment of HFPO-DA and PFOA to ensure such discharges meet numeric effluent limits at each of outlets 001, 002, 005 and 006. Specifically, the alternatives to be considered include use of additional technologies capable of meeting existing effluent limits (which include, but are not limited to, ion exchange, granular activated carbon, reverse osmosis, and any additional current

[17] The ACO uses the term “Outlet” instead of “Outfall.” The numbering convention of “Outlets” matches that of the “Outfalls”.

technologies capable of treating PFAS) and may also include use of enhanced facility management practices that would prevent or minimize the amount of PFOA or HFPO-DA that can reach and be discharged from the Outlet. The Alternatives Analysis and Implementation Plan was submitted in August 2023. To date, the agencies have not completed their review.

3.5 Summary Observations on the Site PFAS Use and Management

Summary Observations on the Site PFAS Use and Management include the following:

- Additional abatement technologies are being installed, or are being planned for future installation, that will be designed to meet the requirements of the NPDES permit and the ACO and to reduce PFAS concentrations in current air emissions and outfall discharges to the Ohio River. Ongoing PFAS sampling of the on-site sources and on-site and off-site environmental media will be used to understand the relationship between the reduction of PFAS in on-site sources and change of PFAS in the on-site and off-site environmental media.

One data gap identified in this section is that the presence, handling, and use of these common industrial articles of commerce which may contain PFAS, including sulfonate PFAS, at the Site are unknown and are identified here as a data gap.

4.0 RCRA Corrective Action, Corrective Measures Implementation and Non-RCRA Corrective Measures

This section describes the RCRA CA, Corrective Measures Implementation, and non-RCRA Corrective Measures.

4.1 RCRA Corrective Action Process History

4.1.1 Verification Investigation

In March 1985, EPA requested that DuPont provide information on the Site's solid waste management units (SWMUs). On June 5, 1985, DuPont submitted information on 14 SWMUs. Subsequently, EPA under the RCRA Hazardous and Solid Wastes Amendments (HSWA) issued a permit (RCRA Permit WVD 045 875 291) requiring that a VI be completed on six of the 14 SWMUs. In accordance with the requirements of the permit, DuPont submitted the Verification Investigation Work Plan (VI WP) on December 14, 1990 (DuPont, 1990). After addressing EPA comments on the VI WP, in the winter of 1991, DuPont conducted the VI for five of the six SWMUs:

- SWMU A-1, the Local Landfill: This landfill is located adjacent to the southern edge of the Site (Figure 2-1). Wastes disposed of at the landfill include inert acrylic polymer sludge, inert mixed plastics, calcium chloride sludge, small quantities of RCRA hazardous ash, and ash from power generation and burning plant trash. Wastes from the fluoropolymer manufacturing processes were not disposed of at this landfill. The landfill operated from 1964 until 1996.
- SWMU A-3, Riverbank Landfill (RBL): This on-site landfill that received powerhouse ash, incineration ash, plastics, rubble, plant trash and approximately 200 drums of solid material between 1948 and the late 1960s.
- SWMU B-4, Anerobic Digestion Ponds (ADPs): This SWMU consisted of three ponds (one dating from the 1950s and two dating from the 1970s) where waste from the fluoropolymer manufacturing process were managed until 1988. The footprint of the ADPs overlapped the footprint of the RBL (Figure 2-8).
- SWMU C-6, Polyacetal Waste Incinerator (PWI): The PWI was an incinerator that operated between 1959 and 1990. Materials incinerated included off-specification polyacetal polymer and other non-hazardous solid waste packaging materials. Some finishing area wastes and non-hazardous chemical area wastes were also burned in the incinerator. Wastes from the fluoropolymer manufacturing processes were not managed at the PWI.
- SWMU H-14, Burning Grounds (BG): The BG operated between 1948 and 1965 and was an area used for open burning of plant trash and organic liquids including acrylic monomer slurries, polyvinyl butyral ink slurries, high boiling point fluorocarbon compounds, and solvents. Solid wastes included paper, trash, and plastic.

Detailed information regarding the sixth SWMU, SWMU F-11 (two deep injection wells), was included in the VI WP and in a September 1991 letter, WVDEP approved the closure plan; therefore, no investigation was ultimately required as part of the VI.

The ADPs consisted of three digestion ponds co-located within the western portion of the RBL. One of the ponds dated from the 1950s, and the two other ponds dated from

the 1970s. The ponds were used for the containment and treatment of aqueous waste from the fluoropolymer manufacturing process and were used through 1988. The ponds were of earthen construction, were approximately 6 feet deep, and had a combined estimated volume of 3 million gallons. There were no outfalls from the ponds. Consequently, the ponds were operated to not overflow. The aqueous waste was periodically removed and shipped to another DuPont location for final treatment. In 1988, the ponds' contents, the upper few feet of clay liner, and pond-berm material were removed and disposed of at the DuPont Dry Run Landfill. Post excavation soil analytical results (Appendix C of the VI) from soils below the three pond bottoms showed between 66 and 110 parts per million of C-8. The ponds area was then backfilled and capped with topsoil and vegetated with grass.

During the VI, DuPont determined that C-8 had been released from the ADPs to underlying soils and groundwater and recommended additional investigation. Although no fluoropolymer wastes were managed at the RBL due to the overlapping footprints of these two SWMUs and the presence of C-8 in soils and groundwater near the RBL, DuPont also recommended additional investigation of the RBL for C-8, as well as select volatile organic compounds (VOCs) associated with landfilled materials. The BG was also recommended for additional investigation due to the presence of select VOCs in soil and groundwater near the SWMU. No further investigation was recommended for the PWI. However, DuPont recommended closure of the PWI in accordance with an approved closure plan.

The findings of the VI also recommended that no further investigation was needed at the Local Landfill as it was operated and permitted in accordance with WVDEP Permit #34394, had a combined WV Solid Waste/NPDES permit application pending and would eventually be closed under WV Solid Waste Management Regulation.

4.1.2 RCRA Facility Investigation

In accordance with the RCRA Permit and a letter from EPA dated May 1997, DuPont conducted a RFI for the RBL, ADPs, BG and PWI SWMUs during 1998 and 1999. The PWI was further investigated in the RFI based on comments from the EPA in the VI and the presence of chromium was evaluated in soil.

Based on the findings of the RFI (DuPont, 1999), the RBL and ADPs SWMUs (commonly referred to as the RBL/ADPs SWMUs because of the overlapping footprints of these two units) were carried forward into a Corrective Measures Study (CMS) because select VOCs and PFOA released from these SWMUs exceeded appropriate groundwater and soil screening level criteria[18]. Although neither PWI nor BG was specifically identified in the RFI as "no further action," these two SWMUs were not carried forward in the CMS (URS, 2014) because the RFI risk evaluation identified no complete exposure pathways for potential human or ecological receptors at these units.

The RFI was approved by EPA in 2006 (see Appendix H). Subsequently, an Interim Remedial Measures (IRM) study was completed in 2007, followed by the CMS completed in 2014. WVDEP issued the Statement of Basis (SB) and the FDRC in 2015. Chemours submitted the Corrective Measures Implementation (CMI) Plan (CMIP) in

[18] The risk-based human health protective soil screening level applied at that time was 240 parts per billion (ppb). This screening level was established by the West Virginia Department of Environment Ammonium Perfluorooctanoate (C8) Assessment of Toxicity Team (CATT) in August 2002.

2017, which was approved by WVDEP in 2018 and was implemented in 2019. Sections 4.1.3 through 4.2 provide additional detail for these programs.

4.1.3 Interim Remedial Measures

An IRM study was completed in 2007 to evaluate the possible remedial options for the select VOCs and PFOA related to the RBL/ADPs SWMUs, including the methylene chloride seep at the RBL. The IRM study evaluated various potentially applicable IRM alternatives to mitigate potential risks posed by the RBL/ADPs SWMUs. An engineered cap system on the RBL slopes and over the ADPs with supplemental tie-ins to existing cover in the production area was ultimately recommended in the *Interim Measures Selection Report* (DuPont, 2008) as the preferred IRM for the RBL/ADPs SWMUs. In addition to the engineered cap system, institutional and administrative controls were proposed to minimize the impact to human health and the environment from the PFOA and select VOCs present in the RBL/ADPs SWMU materials or in the underlying soils and groundwater.

The IRM was approved by EPA on February 22, 2011. Construction activities were implemented from September 2011 to December 2012, and the *Riverbank Landfill IRM Completion Report* was submitted in December 2013. The engineered cap system was designed and constructed to meet the intent of the performance requirements detailed in the WVDEP Title 33, Series 1, Solid Waste Management Rule (W. Va. Code §22-15-1) regulations for a Type F Industrial Landfill (WVDEP, 1996). Consolidation of fill materials located on the Ohio River terrace to the existing landfill slopes reduced the footprints of the RBL and ADPs SWMUs and minimized the potential of erosion and for human or ecological contact with PFOA- and VOC-bearing SWMU materials. Note that when the ADPs were closed in 1988, an engineered cap system was installed on the landfill slopes to supplement the existing cover in the adjacent manufacturing areas which eliminated the potential for human or ecological contact with the SWMU materials and impacted subsurface soils. This system also minimized infiltration of surface water through the landfill material, resulting in a reduction in the potential migration of constituents from the RBL/ADPs SWMUs. Several monitoring wells in this area were abandoned as part of the capping activities.

In addition to the engineered cap system, institutional and administrative controls were implemented to ensure protection of human health and the environment from the PFOA and select VOCs present in the RBL/ADPs SWMUs and in the underlying soils and groundwater. An excavation permit process was established to ensure the safety of site workers. As part of this process, excavation permits are required prior to conducting any intrusive activities, including excavation at the SWMUs. This excavation permit process also ensures that no future intrusive activities occur within the engineered cap area without prior consultation with site personnel responsible for the engineered cap.

During cap construction, the existing facility security fence, which limited access to the Site, was removed. After completion of the engineered cap system, a new security fence was constructed at the top of slope along the existing manufacturing area. The new fence was a 7-foot-high chain link fence with three strands of barbed wire. Security lighting was also installed. Following the security fence construction, a fiber optic intrusion detection system was also installed on the fence to limit access to the Site. These activities were completed by January of 2013. There are security patrols, security cameras and security lighting along the toe of the landfill that monitor the area and reduce the likelihood of trespassers.

The engineered cap system requires maintenance and monitoring to maintain its effectiveness. Additional details describing the ongoing RBL/ADPs engineered cap inspection and maintenance required by the Corrective Measures Implementation Plan is provided in Section 4.2.3.

4.1.4 Corrective Measures Study

URS Corporation (URS, now AECOM[19]), on behalf of DuPont, prepared the CMS report for the Site. The CMS focused on two SWMUs, the RBL and the ADP.

A CMS, as defined by EPA, is a study that identifies and evaluates potential remedial alternatives to address releases from SWMUs at a facility. Remedial decisions are made by comparing possible remedies against threshold criteria and balancing factors. However, the CMS, with approval from EPA, took a more focused, streamlined approach. It presented the remedy already implemented at the Site and described the remedy and monitoring proposed to manage SWMU-related releases to groundwater to ensure the ongoing protection of human health and the environment. The specific objectives of this streamlined CMS were as follows:

- Summarize the IRM and its implementation.
- Present the current conditions at the Site following the implementation of the IRM.
- Present the updated CSM and Conceptual Exposure Model (CEM) for the Site based on the current (post-IRM) conditions.
- Describe the remedy and monitoring proposed to meet the corrective action objectives for the Site.

The specific remedy and monitoring proposed for this Site were as follows:

- Propose the IRM implemented at the RBL and the ADPs as the final remedy.
- Continue the various water treatments and institutional and administrative controls currently in place to ensure the protection of human health and the environment at the Site.
- Maintain hydraulic control of groundwater by way of pumping production wells as a means to manage SWMU-related releases to groundwater and to ensure protectiveness of human health and environment until such time as an alternative means of control is proposed by DuPont and approved by EPA or contaminants in groundwater are reduced to below Federal Maximum Contaminant Levels (MCLs).
- Develop and implement a groundwater monitoring plan as part of the final remedial measure (after the CMS is approved) to ensure the ongoing protectiveness of the elements of the remedy.

The CMS detailing the proposed remedy for the facility was submitted in August 2014, was revised to address EPA comments and was resubmitted in October 2014. The CMS was approved by EPA on February 12, 2015 via email communication from Bill Wentworth of EPA to Andrew Hartten of DuPont (now Chemours).

[19] AECOM Technical Services, Inc. (AECOM) completed acquisition of URS Corporation on October 16, 2014.

4.1.5 Statement of Basis

WVDEP issued the SB in April 2015. WVDEP's proposed remedy was comprised of a program of monitored natural attenuation[20] in conjunction with the continued control, capture, and treatment of contaminated groundwater and the implementation of institutional controls (ICs). Specifically, WVDEP's proposed remedy included the following:

- *"Proposed Continued Institutional and/or Administrative Controls: ICs are administrative and legal controls that minimize the potential for human exposure to contamination and/or protect the integrity of the proposed remedy by limiting land or resource use. Because concentrations of some contaminants remain in site soil and groundwater above residential use, the proposed remedy required compliance with land and groundwater use restrictions. Specifically, the proposed remedy included the following:*
  - *Except for the production water that is already approved for treatment and use as potable water at the site, groundwater at the site shall not be used for any purpose other than 1) industrial use[21] and non-contact cooling water; and 2) the operation, maintenance, and monitoring activities required by WVDEP and/or EPA unless it is demonstrated to WVDEP, in consultation with EPA, that such use will not pose a threat to human health or the environment or adversely affect or interfere with the selected remedy and WVDEP, in consultation with EPA, provides prior written approval for such use.*
  - *The property shall not be used for residential purposes unless it is demonstrated to WVDEP, in consultation with EPA, that such use will not pose a threat to human health or the environment or adversely affect or interfere with the selected remedy, and WVDEP, in consultation with EPA, provides prior written approval for such use.*
  - *All earth moving activities, including excavation, drilling, and construction activities in the areas at the plant where any contaminants remain in soils above EPA's Screening Levels for non-residential use or groundwater above Federal Maximum Contamination Levels (MCLs)/Tap Water risk-based concentrations (RBCs) shall be prohibited unless it is demonstrated to WVDEP, in consultation with EPA, that such activity will not pose a threat to human health or the environment or adversely affect or interfere with the selected remedy, and WVDEP, in consultation with EPA, provides prior written approval for such use.*
  - *The property will not be used in a way that will adversely affect or interfere with the integrity and protectiveness of the selected remedy.*
  - *No new monitoring wells will be installed on the property unless it is demonstrated to WVDEP and EPA, that such wells are necessary to implement the selected remedy and WVDEP provides prior written approval to install such wells.*

[20] Note that in the CSM, DuPont proposed a monitoring program coupled with a plan for continued hydraulic controls of constituents in groundwater. Monitored natural attenuation was not proposed.
[21] In this context, industrial use includes existing and potential future safety showers and eyewash stations. Process water may be used for these purposes as per the Chemours Washington Works Environmental Health and Safety Procedure 537 (Revised January 15, 2020).

  - *No new production or drinking-water wells will be installed on the property without prior approval by the West Virginia Department of Health and Human Resources local Health Department. WVDEP and EPA will be notified of any new production or drinking-water well installation.*
  - *The Owner agrees to provide WVDEP and EPA with a "Certified, True and Correct Copy" of any instrument that conveys any interest in the property or any portion thereof.*
  - *The Owner agrees to allow the WVDEP, EPA, and/or their authorized agents and representatives access to the property to inspect and evaluate the continued effectiveness of the final remedy and, if necessary, to conduct additional remediation to ensure the protection of the public health and safety and the environment based upon the selected remedy as detailed in the FDRC.*

- *Related to the proposed continued institutional and/or administrative controls listed above, WVDEP proposed in the remedy that the Site file an environmental covenant pursuant to the West Virginia Uniform Environmental Covenants Act to implement the land and groundwater restrictions necessary to prevent human exposure to Site contaminants. However, WVDEP also stated that if WVDEP determined that additional IC/GACs were necessary to protect human health or the environment, WVDEP had the authority to require and enforce that corrective action.*
- *Proposed Monitored Natural Attenuation with Continued Production Plant Well Pumping and Hydraulic Containment: This component of the proposed remedy required that the Site continue production well pumping a 4 million of gallons per day to provide hydraulic containment of groundwater on-site and allowed for the Site to request to WVDEP a change in production well pumping provided the Site demonstrated to WVDEP that hydraulic control of on-site groundwater was maintained. Further, it required the Site maintain a groundwater monitoring program to demonstrate that an inward gradient is maintained and that the contaminant mass is being reduced through natural attenuation. The facility was also required to continue the groundwater capture and treatment program and identify sources area of contamination when possible and apply a remediation technique to reduce impacts from the source areas where possible.*
- *Ex-situ Treatment of Waste Process Water at the Wastewater Treatment: This part of the proposed remedy required continued ex-situ treatment of process wastewater at the site wastewater treatment plant was required until the concentrations in groundwater were reduced to their MCLs.*
- *Treatment of Potable Water: As part of the proposed remedy, the Site was also required to continue to treat groundwater used for potable water at the Site for PFOA and VOCs removal until groundwater PFOA and VOCs concentrations were reduced to their MCLs.*
- *RBL/ADPs Monitoring and Maintenance (M&M): The Site was also required to perform monitoring and maintenance of the RBL/ADPs engineered cap system through the life of the Site to maintain its effectiveness and protectiveness, and to ensure the health and safety of site workers and to reduce the potential for trespasser exposure to SWMU materials."*

The Statement of Basis also included a section that provided a description of the criteria used by WVDEP to evaluate their proposed remedy. That description included the WVDEP evaluation of three decisions criteria as general goals and an evaluation of seven balancing criteria.

The Statement of Basis also notified interested parties of the 30-day comment period from the date the notice was published in a local newspaper and the process for submitting comments.

4.1.6 Final Decision and Response to Comments

Subsequently, WVDEP received no comments during the 30-day public comments period, which ran from May 11 through June 10, 2015. The FDRC was signed by WVDEP on July 9, 2015, and detailed the selected remedy for the Site, which was unchanged from the proposed remedy in the SB.

4.2 Corrective Measures

Chemours submitted the CMIP (AECOM, 2018) to WVDEP in November 2017. On October 3, 2018, Chemours submitted the Response to Comments (RTCs) and Revised CMIP to WVDEP, and WVDEP approved the CMIP on October 29, 2018.

The selected remedial measures for the Site identified in the FDRC and in the approved CMIP are as follows:

- Continued ICs.
- Monitored Natural Attenuation (MNA) with continued production well pumping and hydraulic containment and with continued treatment of captured groundwater via the on-site wastewater treatment plant (WWTP).
- Ex-situ treatment of waste process water at the WWTP.
- Treatment of potable water from drinking water wells.
- RBL/ADPs engineered cap inspection and maintenance.

CMI began in January of 2019. Annual Corrective Measures Assessment (CMA) reports were submitted in 2019 through 2022 (AECOM, 2019, 2020, 2021, and 2022) and the 2023 CMA report is anticipated to be submitted in May of 2024. The sections that follow provide a summary of recommendations identified in the annual reports and approved by WVDEP, and an assessment of the remedy effectiveness to date.

4.2.1 Continued Institutional and Administrative Controls

According to the FDRC, the purpose of the ICs required for the Site is to "…maintain protection of human health and the environment over time by controlling exposure to the subsurface and groundwater to ensure long-term effectiveness." ICs required for the Site are listed above in Section 4.1.5., as established in the SB and FDRC (WVDEP, 2015a and 2015b).

The ICs also include a mechanism to guarantee that the controls are transferred as part of any property transaction involving affected areas of the facility. This guarantee would be implemented via an environmental covenant that complies with the West Virginia Uniform Environmental Covenants Act (UECA) [West Virginia Code Chapter 22 (Environmental Resources) Article 22B]. Due to the COVID outbreak in 2020 and 2021,

progress on the development of the draft UECA stalled. Development of the draft UECA began in 2022 and continued in 2023.

ICs required for the Site, as established in the SB and FDRC (WVDEP, 2015a and 2015b), are in place and the Site is in compliance. This remedy is effective and is protective of human health and the environment by controlling exposure to the subsurface and groundwater. After the draft UECA is complete, Chemours will submit that draft to WVDEP for review.

4.2.2 Monitored Natural Attenuation (MNA) with Hydraulic Containment and Wastewater Treatment

Groundwater Monitoring Program

In accordance with the FDRC, the purpose of the groundwater monitoring program is to "…demonstrate that the inward gradient is maintained, and that the contaminant mass is being reduced through natural attenuation." Note that at the time of the FDRC (2015), the natural attenuation focus was on chlorinated VOCs as there was (and currently remains) no evidence that PFAS are appreciably degraded through natural attenuation mechanisms. The groundwater monitoring program was submitted in March 2019 and approved by WVDEP in April 2020, and consists of two elements:

- Groundwater analytical monitoring
- Groundwater elevation measurements.

The purpose of the quarterly groundwater analytical monitoring program is to evaluate the changes in concentrations of PFOA and select VOCs.

The quarterly groundwater monitoring program was implemented in 2019 and continued in 2020. In the *2020 Routine Monitoring and Corrective Measures Assessment Report* (AECOM, 2021), Chemours recommended optimization for the Monitoring Program that included eliminating monitoring of MNA parameters and modifying the VOC and PFAS monitoring frequency from quarterly to semiannual for the next two years, with another program evaluation for optimization to be completed after the two years of semiannual monitoring. In addition, Chemours recommended that the groundwater elevation measurement portion of the program be modified from a quarterly frequency to a semiannual frequency for two years, again followed by another program evaluation for optimization at that point. These recommendations were approved on April 22, 2021, in an email communication from Kenan Cetin (WVDEP) and Andrew Hartten (Chemours) and were implemented in 2021.

In the *2021 Routine Monitoring and Corrective Measures Assessment Report* (AECOM, 2022), Chemours recommended continuing semiannual sampling for VOCs and PFAS for two more years to perform statistical trend analysis using the additional data and then evaluate the Monitoring Program for optimization. In the *2022 Routine Monitoring and Corrective Measures Assessment Report* (AECOM, 2023), Chemours reviewed current trends and recommended continuing with semiannual sampling for VOCs and PFAS for two more years, performing statistical trend analysis using the additional data, and then evaluating the Monitoring Program for optimization after the 2024 program has been implemented.

In the WVDEP November 2022 comment letter pertaining to the 2021 report, WVDEP requested that Chemours switch to Method 8327 for PFAS analysis. However, the PFAS sampling had already been completed for the 2022 semiannual events. Chemours then

proposed using EPA Method 1633 DRAFT, consistent with a request from EPA Region 3. WVDEP approved this proposed method change during a call with Chemours and AECOM on February 27, 2023. Therefore, beginning in 2023, samples were analyzed using EPA Method 1633 DRAFT.

Hydraulic Containment

The FDRC requires that Chemours "…maintain a groundwater monitoring program to demonstrate that the inward gradient is maintained and that the contaminant mass is being reduced through natural attenuation." The purpose in collecting groundwater elevation measurements and evaluating those data is to confirm that Chemours is maintaining hydraulic containment. To confirm hydraulic control of on-site groundwater, the groundwater monitoring program includes the collection and analysis of groundwater elevation data at select on-site wells. Specifically, measurements of groundwater elevation and river water elevation are collected for the following purposes:

- Evaluate the direction of groundwater flow in the alluvial aquifer.
- Evaluate any changes in the direction of groundwater flow.
- Confirm that site groundwater within the alluvial aquifer is not migrating off-site.
- Document continued hydraulic control.

In addition, as part of this requirement, the FDRC specifies that the Site continue production well pumping at a minimum rate of 4 million gallons per day to maintain hydraulic control of on-site alluvial aquifer groundwater. Refined groundwater flow modeling using the 2003 groundwater flow model (DuPont, 2003) was provided to WVDEP in the first quarter 2021 associated with the financial assurance cost estimate for the Site[22] as Attachment 2 (see Appendix I).

However, current process water needs require pumping of additional production wells as indicated in Section 5.2 of the *2022 Routine Monitoring and Corrective Measures Assessment Report* (AECOM, 2023). In 2022, the Site average pumping rate was 6 mgd.

[22] The updated Washington Works RCRA Corrective Action Financial Assurance estimate submitted electronically on July 22, 2021, by Andrew Hartten (Chemours) to WVDEP includes a PowerPoint presentation that provides the refined groundwater flow modeling results.

In the 2022 report (AECOM, 2023), Chemours recommended continuing with semiannual groundwater elevation measurements and then evaluating the program for optimization after the 2024 program has been implemented.

Process Water Treatment Via the Wastewater Treatment Plant

Some of the water discharged from process areas is treated via the Site biological WWTP, which is owned and operated by Chemours, before being discharged to the Ohio River via the outfalls. The Site biological WWTP consists of sedimentation, neutralization, biological activated sludge treatment, and clarification. This biological WWTP treats some of the wastewater from Chemours, and site tenants, and ultimately discharges through Outfall 005 to the Ohio River. Wastewater sent to the biological WWTP includes wastewater from Chemours' fluoropolymer manufacturing operations, which is pretreated via GAC but may contain PFAS, including HFPO-DA. In addition, the wastewater from New DuPont's operations may also contain PFAS.

In support of these NPDES outlets permit requirements, but unrelated to the CMIP, the Site also constructed a GAC treatment system to treat the Ranney Well water, prior to its use as process water. The GAC treatment system became operational in November 2021, and additional details are provided above in Section 3.4.

The continued treatment of captured groundwater portion of the selected remedy for the facility is functioning as detailed in the CMIP. No changes to the continued treatment of captured groundwater portion of the CMI have been recommended since the CMIP was implemented in 2019.

Drinking Water Granular Activated Carbon Treatment

The selected remedy for the Site requires that the water that is intended to be used as potable water for the Site be treated for PFOA and select VOCs until concentrations of groundwater are reduced to their respective MCLs. The Site operates the potable water GAC treatment system to comply with current drinking-water standards. Potable water produced in the treatment system is for on-site use only. The system is operated in accordance with SOPs, and treated water is routinely tested to confirm that drinking-water standards for PFOA and HFPO-DA are met. No changes to the continued treatment of captured groundwater portion of the CMI have been recommended since the CMIP was implemented in 2019.

4.2.3 Landfill Cap Operation, Maintenance and Monitoring

The RBL/ADP SWMUs were addressed via installation of an engineered cap system as an IRM under the RCRA permit (Section 4.1.3). The final element of the selected remedy is the continued inspection and maintenance of the RBL/ADPs engineered cap system. As indicated in the FDRC, the purpose of the maintenance and monitoring of the cap system is to "…maintain its effectiveness and protectiveness and to ensure the health and safety of site workers and to reduce the possibility of trespasser exposure to SWMU materials." Implementation consists of continuing the current inspection and maintenance plan.

The RBL/ADPs engineered cap system is in good condition and is performing as designed to ensure the health and safety of site workers and to reduce the possibility of trespasser exposure to SWMU materials. Quarterly site inspections will continue to be performed to document the condition of the landfill and to identify and manage any maintenance items that are required to ensure that the landfill is maintained in accordance with the original design. No changes were recommended by Chemours with

respect to the overall inspection and maintenance of the RBL/ADPs engineered cap system. This remedy is effective, and no changes are recommended for the inspection frequency. Any issues identified in the quarterly inspection are managed, as needed, in a timely manner. In the 2022 annual report, Chemours recommended that mowing of the RBL/ADPs engineered cap system be increased to twice per year, and that the Filtrex socks that were installed in the Second Quarter 2022 (2Q22) on five outfalls be changed on an annual basis.

4.3 Non-RCRA Corrective Measures

4.3.1 Off-Site Private and Public Drinking Water Treatment

In addition to the on-site PFAS abatement technologies installed over time at the Site to remove PFAS from production well water prior to use as process water and to reduce PFAS from waste streams generated during the fluoropolymer manufacturing, off-site private and public drinking water treatment began in early 2006.

Surveying and PFOA sampling of private water systems and PWSs in West Virginia and Ohio first began in 2001 and continued under various regulatory programs and legal orders. Surveying and sampling are ongoing under the Safe Drinking Water Act (SDWA) First Amendment to Order on Consent (FAOC), which was effective as of January 6, 2017, when EPA, DuPont, and Chemours agreed to amend the 2009 Consent Order in accordance with the terms and conditions contained in the FAOC.

The most recent 2009 Consent Order as Amended Quarterly Progress Report (QPR) titled *2023 Annual and Quarterly Progress Report No. 28 – 2009 Consent Order as Amended* (AECOM, 2024b) includes validated sampling results through December 12, 2023 for PFOA and other PFAS obtained for new drinking-water sources sampled, from monitoring of GAC treatment systems installed at private water systems and PWSs, and from PWS production wells, if sampled. As per the FAOC, monitoring for PFOA and treatment offers for wells with PFOA equal to or greater than the EPA Lifetime Health Advisory (EPA 2016 HA) value for PFOA of 0.07 micrograms per liter (µg/L) is being performed as part of the following:

- “Surveying and sampling requirements for private water systems pursuant to the 2009 Consent Order as Amended Paragraphs 42(a), 42(c), 42(d), and 42(g through k) and Exhibit B
- Surveying and sampling requirements for public water systems pursuant to the 2009 Consent Order as Amended Paragraphs 42(b through d) and 42(g through k) and Exhibit B
- Operation, maintenance, and monitoring requirements for private water systems pursuant to the 2009 Consent Order as Amended Paragraphs 42(e), 42(l) and 42(m) and Exhibit A
- Operation, maintenance, and monitoring requirements for public water systems pursuant to the 2009 Consent Order as Amended Paragraphs 42(f), 42(l) and 42(m) and Exhibit A”

The QPRs include tables, applicable footnotes, figures, and appendices that are updated as needed in each report.

Qualification for a treatment offer was based on exceeding the PFOA criterion specific to the individual program. Under the current program, the criterion used is the EPA 2016

HA of 0.07 µg/L. Three treatment options may be available for private drinking-water sources qualified for treatment. These include installation of a GAC treatment system, connection to a PWS (if practical), or permanent bottled water delivery. PWS connections and permanent bottled water delivery are considered alternative forms of treatment and are EPA approved alternatives. Temporary bottled water is offered as an interim measure for locations where GAC treatment systems are being installed and where PWS connections are being completed. Under the 2009 Consent Order as Amended, treatment is not offered for private drinking-water sources with PFOA less than or equal to the EPA 2016 HA of 0.07 µg/L. To date, drinking water treatment implemented at public water supplies consists of installation of GAC treatment systems.

As of December 12, 2023, the following statistics summarize the status of sampling and treatment, where required, for private and public drinking water supplies qualified for an offer of treatment since 2001:

- 356 Private Drinking Water Sources (wells and springs) had PFOA greater than 0.07 µg/L or above the treatment criterion at the time the source was sampled[23].
- One source has treatment in progress.
- 147 sources have had a GAC treatment system installed.
- 140 sources have been connected to a public water supply.
- 43 sources have bottled water provided.
- 25 sources have various other situations ongoing[24].
- Eight Public water supplies (including at the Site) had PFOA greater than 0.07 µg/L or above the treatment criterion at the time the source was sampled and 11 well fields have had GAC treatment system installed.
- One Transient Non-Community Water System has PFOA greater than 0.07 µg/L and has had a GAC treatment system installed.

Where Chemours has installed GAC systems at private and PWSs, these GAC systems have been included in ongoing operation, maintenance, and monitoring (OM&M) programs. OM&M for private GAC systems includes sampling prior to treatment (PT) water on an annual basis and treated water on a quarterly basis. Although there are two carbon filters in series for private GAC systems, treated water after the first filter is sampled during the quarterly OM&M events and when the concentration of PFOA in that water reaches 0.015 µg/L, a carbon changeout is performed. This sampling process ensures that resident's exposure to PFAS in drinking water is limited because of the presence of the second carbon filter, which acts as a polishing step in the treatment process. For PWS GAC systems, OM&M is performed on either a biweekly or monthly basis and includes sampling of PT water and treated water after the first and second filters. For PWS GAC systems, carbon change outs are performed as required by the individual PWS OM&M agreements. GAC system monitoring results are compiled in the QPRs that are submitted to EPA as required under the FAOC.

[23] Drinking water treatment has been offered under several programs since the mid-2000s. Qualification for a treatment offer was based on exceeding the PFOA criterion specific to the individual program, which may have been less than the current criteria of 0.07 µg/L.
[24] Table 7 in the quarterly progress reports provides details on the status of each of these drinking water sources.

Additional details pertaining to the private drinking water surveying and sampling program results and the public water supply sampling results are provided in the tables, footnotes, figures, and appendices provided in the *2023 Annual and Quarterly Progress Report No. 28 – 2009 Consent Order as Amended* (AECOM, 2024b). Evaluation of the geographic distribution and concentrations of PFAS detected above the reporting limits (RLs) in private and public water supplies is provided in Section 6.3.1.

4.4 Summary Observations on the RCRA Corrective Action, Corrective Measures Implementation and Non-RCRA Corrective Measures

Summary Observations on the RCRA CA, Corrective Measures Implementation and Non-RCRA Corrective Measures include the following:

- RCRA CA investigations, which began in the early 1990s, and ongoing regulatory driven programs (the SDWA surveying and PFAS sampling of private and PWS drinking water program, CMI and ACO activities) have generated PFAS results over time that show PFAS in on-site sources and in on-site environmental media.
- The FDRC was signed by WVDEP in November of 2017 and approved of the CMIP in October 2018. The selected remedial measures for the Site identified in the FDRC and in the approved CMIP are as follows:
  - Continued ICs.
  - MNA with continued production well pumping and hydraulic containment and with continued treatment of captured groundwater via the on-site WWTP.
  - Ex-situ treatment of waste process water at the WWTP.
  - Treatment of potable water from drinking water wells.
  - RBL/ADPs engineered cap inspection and maintenance.
- CMI began in January of 2019 and is ongoing.
- Surveying and PFAS sampling of private and PWS drinking water sources began in 2001 and is ongoing under the SDWA FAOC.
- As of December 12, 2023, 356 private drinking water sources (wells and springs) had PFOA greater than 0.07 µg/L or above the treatment criterion at the time the source was sampled and treatment was offered by Chemours. In addition, 11 GAC systems have been installed for eight PWSs by Chemours. Private and PWS with GAC systems installed are included in the Chemours ongoing OM&M program.

No data gaps were identified related to Site RCRA CA, corrective measures implementation and non-RCRA corrective action.

5.0 On-Site PFAS Conceptual Site Model

This section provides the updated On-Site CSM, including information on on-site PFAS sources, transport mechanisms, and migration pathways to on-site environmental media and data on the presence and distribution of PFAS in those media.

Figures 5-1 through 5-3 are three schematic cross sections through the Site, which depict the on-site PFAS sources, and the transport mechanisms and migration pathways from those sources to on-site environmental media. Only PFOA and HFPD-DA are depicted in these figures to represent historical and current operating conditions, although other PFAS are present. These on-site PFAS sources, transport mechanisms and migration pathways to on-site environmental media are also depicted in the flow chart included as Figure 5-4. Figure 5-4 depicts only the current PFAS sources and migration pathways. In the schematic cross sections, historical air emissions and water discharges are not depicted because they are not ongoing. However, historical PFAS in air emissions and historical wastes managed on-site have resulted in the presence of PFOA in Site soils and groundwater and are depicted in the flow chart in dashed boxes.

In the following subsections, the PFAS sources (Section 5.1), transport mechanisms and migration pathways (Section 5.2), and presence and distribution in environmental media on-site (Section 5.3) are described with the starting point for discussion purposes being the Washington Works fluoropolymer manufacturing processes. Numbers to the right of the symbols in Figure 5-4 are referenced in the subsections below, with the Washington Works fluoropolymer manufacturing processes being #1 in Figure 5-4.

5.1 PFAS Sources from the Washington Works Fluoropolymer Manufacturing Processes – Figure 5-4 #1

PFAS sources from the Washington Works fluoropolymer manufacturing process (Figure 5-4 #1 and depicted in Figures 5-1 through 5-3) include the following:

- #2: Historical PFAS in Air Emissions (~1950s-2013)
- #3: Historical On-Site Management of PFAS-bearing Solid Process Wastes via SWMUs and Landfills
- #4: Historical Discharges to the Ohio River
- #5: Process Solid Waste
- #6: Process Wastewater
- #7: Current PFAS in Air Emissions (2013-present)
- #8: PFAS from Leaks, Spills, etc.
- #9: PFAS in Equipment and Materials Handling

These PFAS sources are discussed in the subsections below.

5.1.1 Historical PFAS in Air Emissions (~1950s – 2013) – Figure 5-4 #2

PFOA and associated PFAS emitted from stacks in the fluoropolymer manufacturing area were predominantly particle-associated.

Historical PFOA and associated PFAS-bearing airborne emissions were transported with the wind and subject to removal via dry and wet deposition. Wet deposition occurs during rain and snow events when precipitation scavenges airborne PFAS and deposits it on surfaces. After deposition on surfaces, this PFAS can continue to migrate downward into soil via precipitation driven infiltration and can further migrate to groundwater via leaching from soil.

These air emissions were subjected to atmospheric dispersion and dilution in association with the local wind patterns. PFAS were distributed in ambient air at varying concentrations depending on a variety of process emission and meteorological factors. However, PFAS concentrations measured in residential wells and springs in both Ohio and West Virginia show that PFAS-containing air emissions have historically migrated from the Site in all directions to some extent (Section 6).

Although PFOA was completely phased out in 2013, the Site still discharges amounts of PFOA in air emissions due to the presence of PFAS in production well water used in the fluoropolymer manufacturing processes and due to the potential presence of PFOA in infrastructure associated with the fluoropolymer manufacturing process.

5.1.2 Historical On-Site Management of PFAS-bearing Process Wastes via SWMUs and Landfills – Figure 5-4 #3

From ~1950s through the complete transition to HFPO-DA as a replacement chemistry in 2013, PFOA was used in the fluoropolymer manufacturing processes as a surfactant and process wastes generated contained varying amounts of PFOA. As was discussed in Section 4.1.1, PFOA was found in wastes from the fluoropolymer manufacturing process that were managed at the Site in the former ADPs (Figure 2-8 and depicted schematically in Figure 5-2 as the capped RBL/ADPs landfill). PFOA was found during the VI to have migrated to soils and groundwater at the Site via precipitation while the units were in operation. The remediation of the ADPs and consolidation of those materials under the RBL/ADPs landfill cap was performed September 2011 until July 2012. This landfill cap is an engineered system with a 40-millimeter HDPE geomembrane liner to minimize water infiltration into the landfill materials. This liner is covered with a geo-composite drainage layer followed by 18 inches of general fill soil and a 6-inch topsoil layer[25]. This cap system presents a barrier to infiltrating precipitation, which drains via the geo-composite layer. With infiltration eliminated at the cap, the ability for precipitation to infiltrate through the landfill materials has been reduced.

In addition to the former ADPs, Chemours owns two landfills in West Virginia where fluoropolymer process wastes were managed by DuPont. These are the Dry Run Landfill and the Letart Landfill.

[25] *Riverbank Landfill IRM Complete Report*. URS Corporation. December 2013.

The Dry Run Landfill is located west of Lubeck, West Virginia, about eight miles southwest of the Site and Local Landfill. The Dry Run Landfill was originally permitted on October 26,1982 under Water Pollution Control Permit Number IWL-6282-82. The landfill was permitted under WV Solid Waste/NPDES Permit Number WV0076244 on January 12,1990. The current effective date of the permit is February 1, 2016, with Modification No. 5 on May 1, 2019. The permit renewal application was submitted June 10, 2020 and resubmitted February 11, 2021. The permit was then issued for public notice in March 2024 and issued as final on July 29, 2024. As per the permit, monthly, quarterly, or semiannual monitoring of PFAS occurs at several outlets and in monitoring wells. Waste was placed in the landfill from the Site beginning in 1986 and continued through 2006. The source of PFAS at Dry Run Landfill is thought to be the materials excavated from the ADPs in 1988. A leachate collection system was placed over existing landfilled materials in 1997-1998 and additional waste material was placed on top for the remaining life of the landfill. A GAC treatment system was installed in 2006 to remove PFOA discharging through the landfill's permitted outlet. A permanent engineered cap that included an impermeable geosynthetic cover and a vegetative cover was constructed in 2007.

The Letart Landfill is located north of Letart, West Virginia, in Mason County. The landfill was originally permitted under WVDNR Permit #3495. Letart Landfill was permitted under WV NPDES/Solid Waste Permit Number WV0076066 in the late 1990s. The current effective date of permit is September 1, 2015. A permit renewal application was submitted in January 2020, but a draft permit has not yet been received by Chemours. The permit requires quarterly or semiannual monitoring of PFOA in leachate, outlets, and monitoring wells. Waste was placed in the landfill from the Site from the 1960s through 1995 and included off-specification product, totes, and containers that were thought to be the source of PFOA in the landfill. The Letart Landfill was closed in 1995, and a geosynthetic membrane cap was installed in 2001. A leachate collection system was installed during the capping. A GAC treatment system was installed in 2006 to remove PFOA. Treated water is discharged via Outlet 002, which flows through a small ephemeral stream to the Ohio River.

5.1.3 Historical NPDES Discharges to the Ohio River – Figure 5-4 #4

Historically, the Site discharged PFAS-bearing process water and stormwater through outfalls (#4) to the Ohio River. These are depicted in Figure 5-4 as dashed boxes next to the outfalls but are not shown in the schematic cross sections. These discharges may have resulted in the presence of PFAS in the Ohio River water (#27A) and potentially in Ohio River sediments (#27B) as the river water that recharges the alluvial aquifer migrates through those sediment. The Ohio River water and river sediments are considered to be off-site environmental media, and the presence and distribution of PFAS in the Ohio River are discussed in Section 6.3.2. The Ohio River sediments have not been evaluated for the presence and distribution of PFOA nor any other PFAS.

5.1.4 Process Solid Waste – Figure 5-4 #5

Process solid waste from the fluoropolymer manufacturing processes (#5), which contains PFAS, is managed off-site via incineration or landfilling by a third party (#5A and depicted schematically in Figures 5-1 and 5-2). Only in situations where leaks or spills, or malfunctions of equipment that handle process solid wastes occur would process solid wastes be considered a source of PFAS that may migrate to on-site environmental media. These situations are discussed in Sections 5.1.7 and 5.1.8.

5.1.5 Process Water and Stormwater – Figure 5-4 #6 and #6A-D

Process wastewater from the fluoropolymer manufacturing processes (#6) is managed on-site and off-site in several different ways. Some process wastewater streams are managed off-site by a third party via incineration (#6A and Figure 5-1). Other process wastewater streams are treated on-site via GAC treatment (#6B and Figure 5-2), and treated wastewater is then discharged through the process water outfalls to the Ohio River (#27A and Figure 5-1). Spent carbon from the Ranney Well GAC treatment system is regenerated by the supplier although the regeneration process is unknown to Chemours and understanding that regeneration process is identified here as a data gap. Other process wastewater streams are treated on-site via the WWTP (#6C), and then discharged through process outfalls to the Ohio River (#27A). WWTP biosolids (#6D) are managed off-site along with the process solid wastes (#5A and Figure 5-1). Other process wastewater is discharged directly to process water outfalls (#5C) to the Ohio River (#27A).

A discussion of the Site process water outfalls and sources of waters to those outfalls was provided in Section 3.3. Note that during precipitation events, the process water outfalls also discharge stormwater. Figure 2-12 shows the basins and sub-catchments at the Site in which stormwater is generated during storm events that then discharges through process water outfalls and stormwater outfalls, which are shown in Figure 2-8 and depicted in Figures 5-1 and 5-2.

Stormwater at the Site (#16C) may contain PFAS that originate from on-site sources, including the following:

- #7: Air Emissions (2013-present)
- #8: Leaks, Spills, etc.
- #9: Equipment and Materials Handling

Stormwater migration pathways from these sources to stormwater outfalls are described in Section 5.2.2.

5.1.6 PFAS in Currently Air Emissions (2013 – Present) – Figure 5-4 #7

HFPO-DA and associated PFAS in air emissions currently can migrate to off-site environmental media (#10) in the same ways that PFOA and associated PFAS-bearing air emissions migrated to on-site environmental media (#11 and Figures 5-1 through 5-3). Migration pathways for PFAS-bearing air emissions to off-site environmental media are discussed below in Section 5.2.1. Migration pathways for PFAS-bearing air emissions to on-site environmental media are discussed below in Section 5.2.2.

5.1.7 PFAS from Leaks, Spills, Etc. – Figure 5-4 #8

PFAS have been released to Site environmental media from leaks and spills (#8 and depicted in Figures 5-1 and 5-2). There are several locations where process materials and solid wastes and wastewater are handled related to the fluoropolymer manufacturing. At these locations, leaks and/or spills can occur. Where at the Site a PFAS release happens and onto which type of surface (permeable to impermeable) it happens determine into which type of environmental media the PFAS migrate. Site best practices and spill management protocols prescribe how to manage PFAS releases from leaks and spills at the Site. Additional information on PFAS migration into on-site environmental media from leaks and spills is provided in Section 5.2.2.

5.1.8 PFAS in Equipment and Materials Handling – Figure 5-4 #9

As with leaks and spills, PFAS have been released to Site environmental media from equipment and materials handling (#9 and depicted in Figure 5-3) during fluoropolymer manufacturing process. There are several locations where equipment and materials handling related to the fluoropolymer manufacturing are managed. At these locations, leaks and/or spills can occur. As with leaks and/or spills of PFAS in solid waste or wastewater, where PFAS releases via leaks and/or spills from equipment and materials handling within the manufacturing processes happen determines in which direction the PFAS migrate into on-site environmental media (#11). An example of a known PFAS release from a materials handling location took place in a portion of the East Truck Pad (depicted in Figure 5-3) prior to 2018. In this part of the East Pad, roll-offs that contain filter cake from the Site's W9 treatment system were staged prior to off-site disposal. In 2018, soil was sampled in the vicinity of the roll-off staging area and was found to contain PFOA and HFPO-DA. In this case, PFOA and HFPO-DA from the spent filter cake was released to the permeable gravel pad. Section 5.3.3 (Roll-Off Staging Area Release Assessment) provides details of this investigation and the resulting actions to limit future releases from these roll-offs. The presence and distribution of PFOA and HFPO-DA from this release are provided in Section 5.3.3. As stated in the section above, the Site best practices and spill management protocols prescribe how to manage PFAS releases in these situations.

5.2 PFAS Migration Mechanisms and Transport Pathways

Migration mechanisms and transport pathways for PFAS in on-site sources to on-site media are depicted schematically in Figures 5-1 through 5-3 and shown in Figure 5-4. Because these migration mechanisms and transport pathways are depicted in all three schematic CSM figures, specific reference to the schematic CSM figures for each migration mechanism and transport pathway discussed below are not included, but references to the flow chart (Figure 5-4) are provided.

5.2.1 Pathways to Off-Site Environmental Media – Figure 5-4 #10

There are two historical PFOA and associated PFAS sources that have migrated to off-site environmental media, historical air emissions (~1950s to 2013) (#2), and historical discharges to the Ohio River (#4). There are also two current HFPO-DA and associated PFAS sources that also migrate to off-site environmental media, current air emissions (2013 to present) (#7), and current process and stormwater outfalls to the Ohio River, (#12 and #5C, respectively). Because PFOA is no longer used as a polymer processing aid, historical discharges of PFOA and associated PFAS in process and stormwater to Outfalls are shown in dashed boxes next to the current process water outfalls (#5C) and stormwater outfalls (#12). A detailed discussion of the transport mechanisms and migration pathways to off-site environmental media and the presence and distribution of PFAS in off-site environmental media from these current and historical sources is presented in Section 6.

5.2.2 Pathways to On-Site Environmental Media – Figure 5-4 #11

PFAS sources that can currently migrate to on-site environmental media include the following:

- #7: PFAS in Current Air Emissions (2013-present)

- #8: PFAS from Leaks, Spills, etc.
- #9: PFAS in Equipment and Materials Handling

Current air emissions containing HFPO-DA and related PFAS (#7) [and historical PFOA and related PFAS in air emissions (#2)] can migrate to on-site environmental media (#11) via dry deposition and/or wet deposition. During dry deposition PFAS-bearing air emissions may be deposited on impermeable surfaces, such as building roofs, and concrete or asphalt ground surfaces, as well as depositing on permeable gravels, vegetated or soil surfaces. Soils at the Site are likely to contain PFOA and associated from those historical air emissions that may continue to leach PFAS via precipitation to the underlying Site alluvial aquifer. Although used for a much shorter timeframe of just over ten years, HFPO-DA and associated PFAS in air emissions that follow these pathways to Site soil also results in PFAS concentrations that may continue to leach via precipitation to the underlying Site alluvial aquifer.

In addition to dry deposition, PFAS in air emissions (#2) can also migrate to on-site environmental media (#11) via wet deposition. Wet deposition occurs during rain and snow events when precipitation scavenges airborne PFAS and deposits it on surfaces. Alternatively, precipitation can mobilize PFAS deposited on impermeable surfaces (#13) and permeable surfaces (#14), which can ultimately migrate via additional precipitation (#15) to soils (#17) and subsurface soils (#19), and to the alluvial site aquifer (#21) or from surfaces to stormwater (#16) and to stormwater outfalls (#12).

There are several locations where solid wastes and wastewater are handled related to the fluoropolymer manufacturing processes. At these locations, leaks and/or spills (#8) can occur. In addition, releases of HFPO-DA and associated PFAS from equipment handling and process material management (#9) may occur. PFAS from the sources can migrate to impermeable surfaces (#13) or to permeable surfaces (#14).

Where leaks or spills of PFAS-bearing solid materials occur on impermeable surfaces, Site best practices are followed and the releases can typically be managed depending on the duration and magnitude of the release[26]. The same holds true for liquid releases bearing PFAS. However, the liquids may migrate in the direction of water flow either by gravity or via precipitation (#15). Water flow direction at the Site is a function of location at the Site. Some water flows directly into stormwater conveyances (#16) to stormwater outlets (#12) or to process water outlets (#6C). At other locations at the Site, water flows from impermeable surfaces (#13) to permeable surfaces (#14) and then to the shallow soils (#17) and further into the subsurface soil via precipitation (#19), likely eventually reaching the Site alluvial aquifer (#21) and migrating in groundwater in the direction of groundwater flow. Close to the alluvial terraces near the river, liquid releases containing PFAS may migrate via precipitation in the subsurface soils (#22) to Holocene sediment

[26] Releases of significant duration or magnitude that result in the identification of a new AOC or which could threaten human health and the environment, outside the facility, must be managed per the RCRA Hazardous Waste Permit WVD 045 875 291 requirements.

water zones (#23) and/or with additional precipitation to the underlying site alluvial aquifer (#21). The rate and direction of the movement of precipitation in the subsurface is variable due to several factors including the amount of precipitation, the different permeabilities of the lithologies encountered, and whether the lithologies are saturated or not.

In addition, stormwater conveyances throughout the Site (ditches, drains, stormwater pipes) discharges stormwater directly to the Ohio River (#27A) through stormwater outfalls (#12). However, at some locations at the Site, stormwater discharges to process water conveyances and discharges with process water through the outfalls (#5C) to the Ohio River (#27A). PFAS-bearing waters discharging through process or stormwater outfalls may also potentially migrate to on-site environmental media by way of leaks in infrastructure or when repairs are made to the piping infrastructure (#25). If releases do occur, these PFAS-bearing waters can migrate to underlying shallow or subsurface soils (#17 or #19) then to the Site alluvial aquifer (#21).

When PFAS-bearing process or stormwaters in process water and stormwater outfalls discharge to the Ohio River (#27A), these waters are migrating to off-site environmental media (#26), specifically to surface water in the Ohio River (#27A). Once in the river water, these discharges mix with the river water and flow downstream. Ohio River water may interact with river sediments. Ohio sediment (#27B) may potentially contain PFAS from PFAS-bearing process or stormwaters in process water and stormwater outfalls or overland flow of stormwater to the Ohio River. No sampling of Ohio River sediments has been completed, and the presence and distribution of PFAS are identified as a data gap (described in Section 6.3.3) as river sediments are included as an off-site environmental media. Ohio River water also recharges the Site alluvial aquifer (#21) because of the pumping of the various production wells and well fields at the Site (#28A to #28C) as shown in Figure 2-10.

Water extracted from production wells on the Site and from the Blennerhassett Island well field (#28D) is used for various purposes at the Site:

- Well 336 (#28A) is a production well in the East Well Field that is used for Site potable water. Water from this well is the feed to the Site potable water GAC treatment system (#29). Treated water is then piped throughout the Site for potable water use (#30). The distribution of PFAS in Well 336 and in treated water is presented below in Section 6.1.2.
- The Ranney Well (#28B) is a production well for which a GAC treatment system became operational in November 2021 to reduce the concentrations of PFAS in process water from the fluoropolymer manufacturing processes (#1). The distribution of PFAS in the Ranney Well prior to installation of the GAC treatment system and in GAC treated process water (#32) is presented in Section 6.1.2.
- Water from wells 331, 332, 333, 334, 335 and 337, which are in the East Well Field, the five wells in the west well field, the Gallery Well (#28C), and the Blennerhassett Island Well Field wells (#28D) are untreated prior to use at the Site. Waters from these production wells are used for process water (#33), for producing demineralized water (#34) and for non-contact and contact cooling water (#35) for the fluoropolymer manufacturing processes (#1). The distribution of PFAS in on-site production wells listed here is presented in Section 5.3.6.

5.3 PFAS in On-Site Environmental Media

Prior to approximately 2018, the majority of environmental media sampled on-site by DuPont, and then by Chemours, was only analyzed for the PFO anion (the entity detected by the analytical instrument) and reported as APFO and/or PFOA (the disassociated form of APFO in aqueous solutions). Beginning in 2018, Chemours began to analyze select samples of on-site and off-site environmental media (predominantly drinking water, groundwater, process water and stormwater) via various PFAS analyte lists and analytical methods, such as EPA Method 537, EPA Method 537.1, EPA Method 1633 DRAFT, and non-targeted analysis using liquid chromatography coupled to high resolution quadrupole time of flight mass spectrometry. Therefore, water PFAS data evaluated for this updated CSM are primarily the results finalized by Chemours within the past five years or less. However, for other non-water environmental media sampled only for PFOA (for example soil and air emissions), those data are included in this evaluation regardless of the results finalization date because these results capture snap shots in time of the presence and distribution of PFOA in those on-site environmental media during a timeframe when the Site began to implement PFAS abatement technologies.

5.3.1 PFOA In Historical Air Emissions

Air monitoring was conducted at the Site fence line from November 2003 to March 2004. Two sampling methods were used:

- Occupational Safety and Health Administration (OSHA) Versatile Sampling (OVS) tubes
- High-Volume Impactor samplers.

The purpose of the monitoring was to demonstrate monitoring methods and establish a baseline concentration for that time at the Site. Methods and results for this air sampling program were summarized in a 2006 publication, which was included in Appendix 5.3 of the Data Assessment Report (DuPont, 2008). Figure 5-6 reproduces information presented in that publication that are summarized below.

Six sampling events using OVS tubes were conducted over a ten-week period from November 2003 to January 2004. During each sampling event, one sample was taken at five locations along the fence line plus an additional sample was taken at a spot co-located near the sampling location predicted to have the highest concentration of PFOA (Figure 5-6). High volume sampling was conducted in March 2004 during a 72-hr time period at four of the same locations (1, 2, 3 and 5) used for the OVS sampling (Figure 5-6). Twenty-eight pairs of useable results were generated. Results from the high-volume sampling were used to calculate a particle size distribution and to determine ambient air concentrations at the fence line. A summary of ambient air OVS results is provided in Figure 5-6 and showed a range in OVS tube monitored PFOA concentration from less than 0.012 microgram per meter cubed ($\mu g/m^3$) to 0.9 $\mu g/m^3$. In addition, the OVS tube sampling showed that PFOA in air emissions was present in the particulate form and no material was detected in the vapor portion of the sampling tube. Sampling results from the OVS tubes and the high volume samplers were consistent in measuring the highest PFOA concentrations at Stations 2 and 3, which were located downwind of the prevailing wind direction.

A second air monitoring event was conducted from August to October 2005 and consisted of sampling ambient air (including particle size distributions) and rain at nine

locations for nine events. Because eight of the nine sampling locations were off-site (two in West Virginia and six in Ohio) and only one location was on the Site, the second air monitoring event and the results are presented in Section 6.3.6. However, it is noted here that during this second ambient air monitoring event, the highest concentrations of PFOA in the OVS tubes and in the high-volume samplers were observed at the on-site monitoring location during each of the nine monitoring events.

The results from these two ambient air sampling events show that PFOA was present in air emissions in the particulate form in the early to mid-2000s, was detected at several locations on the Site, and that PFOA in air emissions was a source to on-site surfaces and soils.

5.3.2 PFAS in Current Air Emissions

Extensive stack sampling data and reports for the Site were provided to EPA in the October 2020 CWA Section 308 Information Request Response, the May 2022 Toxic Substances Control Act (TSCA) Information Request Response, and the April 2023 TSCA Information Request Response.

5.3.3 PFOA and HFPO-DA in Soil

On-site soil was sampled and analyzed for PFOA during several investigations including the VI in 1991-1992, the RFI in 1996-1997, the on-site soil/grass investigation in 2005, and the release assessment for the Chestnut Tree Plantation and the East Field AOCs in 2013. In addition, in May of 2018, soils in the East Pad were sampled for PFOA and HFPO-DA as part of a release assessment. Results for these investigations are presented below.

VI and RFI Soils

As stated in Section 4.1.1, the ADPs consisted of three digestion ponds co-located within the western portion of the RBL that were used for the containment and treatment of aqueous waste from the fluoropolymer manufacturing process and were used through 1988. The ponds were of earthen construction, were approximately 6 feet deep, and had a combined estimated volume of 3 million gallons. There were no outfalls from the ponds. Consequently, the ponds were operated to not overflow. However, during the VI (DuPont, 1992), soil sampling in 1991 found evidence of releases of PFOA to soil near the RBL and ADPs. Table 5-1 provides the PFOA results for the soil samples collected during the VI. Locations of these sampling points can be found in Figure 5-7[27]. Concentrations of PFOA are highest in samples collected from the vicinity of the ADPs with a range in concentration from 1.13 to 97 milligrams per kilogram (mg/kg). In general, the VI soil results show lower concentrations with increasing depth below ground surface in both samples collected from the ADPs and the RBL. Soil samples collected from RBLS8 are the exception, where the sample collected from 35 to 39 feet bgs has a PFOA concentration similar to the 2 to 4 feet bgs sample (0.94 and 1.06 mg/kg, respectively) while the 3 to 5 feet bgs sample was below the detection limit of 0.4 mg/kg.

During the RFI for the Site, soil was sampled again near and within the ADPs and RBL SWMUs, as well as near the BG, both at the surface (0 to 2 feet) and at depth (2 to 22

[27] Some samples from the soil boring locations shown in this figure from the RFI were not analyzed for PFOA.

feet). The PFOA results for these soils sampled in 1998 are also provided in Table 5-1. Boring locations are provided in Figure 5-7.

The soil samples collected for the RFI show the same trend of decreasing PFOA concentration with increasing depth. In addition, higher concentrations were observed in the vicinity of the ADPs. The highest PFOA concentrations in soil, up to 46 mg/kg, were found at depths of greater than 8 feet bgs near the former ADPs. Soil results from 1998 in Table 5-1 show that 51 surface soil samples were collected at a depth interval of 0 to 2 feet bgs during the RFI. The range of PFOA measured in those samples was from non-detect (less than 0.025 mg/kg) to a maximum of 9.1 mg/kg. Of those 51 samples, 41 are non-detect or have concentrations of PFOA less than 0.047 mg/kg. The range of PFOA observed in the other ten samples, which were located in the vicinity of the ADPs, shows PFOA greater than 0.047 mg/kg.

Based on the concentrations of PFOA and select VOCs in soils (and groundwater) from the VI and RFI, DuPont completed an IRM study in 2007 to evaluate the possible remedial options for the RBL/ADPs SWMUs. An engineered cap system on the RBL slopes and over the ADPs with supplemental tie-ins to existing cover in the production area was ultimately recommended to mitigate potential risks posed by the RBL/ADPs SWMUs. However, prior to capping, consolidation of fill and waste materials identified on the Ohio River terrace to the existing landfill slopes was completed to reduce the footprint of the SWMUs, minimize the potential of erosion and minimize human or ecological contact with PFOA- and VOC-bearing SWMU materials. Construction activities were implemented from September 2011 to December 2012, and the *Riverbank Landfill IRM Completion Report* was submitted in December 2013.

On-Site Soil/Grass

The 2005 On-Site Grass, Root and Soil Sampling Study examined PFOA concentrations in vegetation and soil located at and within one foot of the ground surface in the vicinity of ambient air sampling Stations 2 and 3 as shown in Figure 5-6. This investigation involved coring soil to a depth of 12 inches and subdividing the core into various media fractions (grass, roots, soil, etc.) for analysis of various physical parameters such as pH, clay content, PFOA concentration, and total organic content.

Table 5-2 provides summary PFOA results at the top of the table by sample depth followed by results for each sample for each depth. Table 5-2 shows that the range in concentrations of PFOA in soil samples collected from the top foot of soil range from 0.0242 mg/kg to a maximum of 0.134 mg/kg. In addition, Table 5-2 shows that the 1- to 3-inch depth soil samples have lower maximum concentration of PFOA (0.0696 mg/kg) compared to the 0 to 1-inch and the 3 to 6-inch and 6- to 12-inch depth samples (0.108 mg/kg to 0.13 mg/kg).

Table 5-2 also provides the PFOA results for grass samples. Concentrations of PFOA in unwashed grass are higher than those for the washed grass, indicating that surface deposition of PFOA on grass does take place. PFOA results for washed grass in Table 5-2 indicate that in addition to PFOA being deposited on the surfaces of grass, the growing grass blades may also uptake PFOA.

Release Assessment for the Chestnut Tree Plantation and the East Field AOCs

In the third quarter of 2010, DuPont identified two new areas of concern (AOCs) at the Site where on-site disposal of PFOA-bearing sludge had occurred. Available information regarding the on-site disposal was summarized in a July 12, 2006 letter from Robert

Ritchey, Senior Environmental Control Consultant, DuPont, to Cliff Whyte, Assistant Director, WVDEP, as follows:

- "In 1996 approximately 139 tons of bio-sludge from the Washington Works wastewater treatment plant were land-farmed at the site's East Field. It is estimated that the amount of C-8 in this sludge was less than one pound.
- Washington Works sanitary treatment plant sludge was land-farmed at the onsite experimental chestnut tree plantation, a project of the plant employee's Wildlife Habitat Committee, in 1995 and 1996. No records could be found that would allow calculating how much C-8 would have been present in this material, but it is believed to be minor."

In June 2013, these two new AOCs were investigated. Background soil sampling took place on June 11, 2013. Surface soil (0 to 0.5 feet bgs) was sampled at six locations adjacent to the two AOCs and at three locations away from the two AOCs, which are all representative of site-specific background (Figure 5-8). Table 5-3 provides boring information (boring ID and geological logs), sample information, and PFOA results for the background soil samples. The PFOA results in background surficial soils range from 0.0055 mg/kg to 0.047 mg/kg, which are within the same order of magnitude as the RFI surficial soil samples.

Sampling activities at the East Field took place at the Site between June 10 and 12, 2013. At the East Field, ten locations were selected for soil sampling. Table 5-3 provides boring information (boring ID and geological logs), sample information, and PFOA results for the East Field AOC soil samples. The PFOA results for East Field surface and subsurface soils range from 0.0043 mg/kg to 0.071 mg/kg. In general, concentrations observed at the AOC were consistent with those observed in the site-specific background locations (0.0055 mg/kg to 0.047 mg/kg) with samples collected from one location with slightly higher PFOA concentrations (0.066 mg/kg and 0.071 mg/kg in RA0613-EF6).

Sampling activities at the Chestnut Tree Plantation also took place at the Site between June 10 and 12, 2013. At the Chestnut Tree Plantation, ten locations were selected for soil sampling. Table 5-3 provides boring information (boring ID and geological logs), sample information, and PFOA results. Ranges of PFOA results for the Chestnut Tree Plantation soil samples are of the same order of magnitude as soil samples from the East Field AOC. The PFOA results for Chestnut Tree Plantation soils range from 0.0083 mg/kg to 0.041 mg/kg. Surficial soils and subsurface soils contained similar PFOA concentrations. Concentrations observed at this AOC were consistent with those observed in the site-specific background locations (0.0055 mg/kg to 0.047 mg/kg).

The conclusions from this release assessment were that the results presented in the RA report show that PFOA concentrations within these two AOCs, in which land-farming of PFOA-bearing biosolids occurred, are essentially the same as in background locations at the Site. As a result, no releases to underlying soils are indicated from the land-farming activities. The 2013 data set is essentially in the same range as the data from 1998.

Roll-Off Staging Area Release Assessment

In May 2018, Chemours conducted soil sampling investigation activities at the Site's Roll-Off Staging Area at the East Truck Pad (Figure 5-9). A portion of the East Truck Pad area shown in Figure 5-9 has been used (and continues to be used) to stage roll-offs that contain filter cake from the Site's W-9 treatment system (Section 3.4). The filter cake contains HFPO-DA and lesser concentrations of PFOA because PFOA is no longer used in the fluoropolymer manufacturing processes but is still present due to its historical use in processing equipment and its current presence in groundwater on-site, which is used for process water. Releases from the roll-offs to the soil may have occurred over time. The objective of this investigation was to determine whether the soil in this portion of the East Truck Pad has been impacted by a release from the roll-offs.

On May 16, 2018, soil boring and soil sampling field activities were initiated at the Roll-Off Staging Area in the East Truck Pad. The on-site AECOM field sampler collected soil samples, within each core, at the following intervals:

- Shallow: 0.5 to 1.5 feet bgs
- Middle: 5 to 6 feet bgs
- Deep: 9 to 10 feet bgs

Table 5-4 provides the HFPO-DA and PFOA results for these soil samples. A review of Table 5-4 identified the following observations. With the exception of soil boring SB10, HFPO-DA and PFOA were detected in each of the shallow soil samples (0.5 to 1.5 feet bgs). The shallow soil samples containing the highest HFPO-DA and PFOA concentrations were detected at locations SB14 and SB15. At SB14, HFPO-DA and PFOA were detected at 1.9 mg/kg and 0.22 mg/kg, respectively. At SB15, HFPO-DA and PFOA were detected at 3.9 mg/kg and 0.064 mg/kg, respectively. For the middle soil samples (5.0 to 6.0 feet bgs), eight of the 17 middle soil samples were non-detect (less than 0.0013 mg/kg) for HFPO-DA and PFOA. Nine of the 17 middle soil samples detected at least one of the two constituents. The middle soil sample containing the highest constituent concentrations was collected from location SB16 where HFPO-DA and PFOA were detected at 0.074 mg/kg and 0.0082 mg/kg, respectively. These concentrations are at least a magnitude lower than the highest concentrations associated with the shallow soil samples. For the deep soil samples (9.0 to 10.0 feet bgs), 12 of the 17 deep soil samples were non-detect for HFPO-DA and PFOA (less than 0.0013 mg/kg). The remaining five deep soil samples had detectable HFPO-DA; however, PFOA was not detected. The five deep soil samples that had detectable HFPO-DA were all collected from borings located near the southern border of the study area (SB13, SB14, SB15, SB16, and SB17). The deep soil sample containing the highest concentration of HFPO-DA was collected from location SB15 with a concentration of 0.220 mg/kg.

The detections of PFOA in the May 2018 investigation soil samples at concentrations above the interpreted background concentrations from air emission in 1998 and 2013 (less than ~0.05 mg/kg) indicates that a release had likely occurred in the vicinity of SB14 and SB15. Because these were the first HFPO-DA analyses for soil samples and the Site had only been using HFPO-DA for fluoropolymer manufacturing processes since 2013, the fact that a wide range in HFPO-DA concentrations was observed supports that the highest concentrations indicate that a release from the roll-offs had occurred. Subsequently, a concrete pad was installed over the release area and a secondary

containment pad was constructed in the East Truck Pad to stage roll-offs that contain filter cake moving forward.

Summary of On-Site Soil Results

The soil results presented here show that PFOA was present at many locations around the Site, including upwind and far away from the manufacturing area. The concentrations that were in the less than 0.05 mg/kg range are interpreted to be from fluoropolymer manufacturing process air emissions. However, the East Pad HFPO-DA results and the results for PFOA at concentration greater than the range observed at the background locations, and select high PFOA results in the vicinity of the ADPs, also indicate that releases via leaks or spills have occurred at select locations at the Site including historical releases from the ADPs and releases from materials handling in the East Pad. At these locations, higher concentrations of PFOA can be found relative to the lower concentrations observed outside of these locations. HFPO-DA and other PFAS have not been analyzed in soils other than at the East Pad, and the presence and distribution of PFAS other than PFOA are unknown and are identified as a data gap in the On-Site CSM.

5.3.4 PFAS in Monitoring Wells

Alluvial aquifer monitoring wells on-site have been sampled for PFOA as early as the 1990s as part of the VI. Currently, groundwater monitoring for PFAS is conducted as part of the CMI for the Site (Section 4.2.). The quarterly groundwater monitoring program that includes 10 alluvial aquifer monitoring wells and two production wells was implemented in 2019 and continued in 2020. Subsequently, monitoring was shifted to semiannual and is ongoing. Initially, samples were analyzed for 16 PFAS; however, beginning in the first half of 2023, samples were analyzed for 40 PFAS. However, the available PFOA data is limited for the on-site fractured bedrock monitoring wells, and the presence and distribution of PFAS other than PFOA is unknown and is identified here as a data gap.

Because there have been multiple sampling events for PFAS in monitoring wells (as well as production wells, process water outfall and stormwater outfalls) and the Site is an active fluoropolymer manufacturing plant; data for these sampling points are presented in two ways:

- A table summary that provides a list of PFAS analyzed at each sampling location, the frequency of detections, the range of RLs and the range of detections for the time period covered in the data set. All data summarized in these tables can be found in Appendix J.
- A table that provides, in general but with a few exceptions as noted, the results for the most recently completed sampling event for PFAS and a figure that shows the PFAS results detected above the RLs for that sampling event for that environmental media on-site (e.g., groundwater monitoring and production wells).

Table 5-5 provides a summary of the quarterly and semiannual PFAS results from March 2019 through October 2023. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that the specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected. The evaluation of

PFAS concentrations over time in select monitoring wells is identified as a data gap. Table 5-6 provides the results for PFAS in the second half 2023 sampling event.

The information summarized below and in other subsections is based on reviewing the maximum concentrations observed for PFAS in the monitoring wells that are presented in Table 5-5. However, it is important to note that the range in detections above the RLs is also provided and that in general, for PFAS with higher magnitudes of detection (i.e., PFOA and HFPO-DA but not limited to these two PFAS) the range in detections can be several orders of magnitude.

The presence and distribution of PFAS in monitoring wells vary depending on the location of the monitoring well and whether PFAS are screened in water in the sands, slits, and clays of the overbank deposits or in the sands and gravels of the underlying alluvial aquifer. M04-MW02, an overbank deposit well on the lower terrace in the vicinity of the former ADPs, in general shows the highest concentrations of PFAS and had the highest number of PFAS detected above the RLs. Alluvial aquifer wells located in the vicinity of the fluoropolymer manufacturing area, such as N05-MW01, P06-MW02, P08-MW01, have higher groundwater elevation measurements compared to S05-MW02 indicating that groundwater flows from those wells towards S05-MW02 and the Ranney Well (Figure 2-10 and groundwater elevation maps provided in Appendix C). Those three wells also show relatively high concentrations of PFAS and several PFAS detected. Monitoring wells located further away from fluorotelomer manufacturing areas and the former ADPs, in general have lower concentrations of PFAS (D08-MW01, E13-MW01, T13-MW01, and Z07-MW01) and fewer PFAS detected above the RLs. In general, Table 5-5 indicates that PFOA and HFPO-DA are present in the highest concentrations and frequently observed at an order of magnitude higher than other PFAS. Depending on location, PFHxA, PFHpA, perfluorobutanoic acid (PFBA), perfluoropentanoic acid (PFPA), and perfluorononanoic acid (PFNA) are generally measured at about an order of magnitude less than PFOA/HFPO-DA, and other PFAS observed are generally measured at an order of magnitude lower. However, exceptions to these generalizations also exist. For example, PFHxS, is observed at a maximum concentration of 730 ng/L in E13-MW01. Groundwater in this area of the Site flows from west to the east onto the Site from the adjacent former Sabic property. Perfluorodecanoic acid (PFDA) in N05-MW01 is observed at a maximum concentration of 1,700 ng/L and only PFOA is observed at a higher concentration. PFOS in AE11-MW01 is observed with a maximum concentration of 230 ng/L, which is the maximum concentration in the data set summarized here. PFOS is also not utilized in fluoropolymer manufacturing process. AE11-MW01 is located on the southern boundary of the Site next to the railroad tracks and DuPont Road (SR 892).

The general presence of PFAS in industrial articles of commerce (https://doi.org/10.1016/j.hazl.2023.100086) that may have been or are used at the Site such as lubricants, greases, paints, cleaning products and associated with the operation and maintenance of equipment, vehicles and railcars was identified as a data gap in Section 3.2.

Table 5-6 provides the PFAS results for the October 2023 sampling event and Figure 5-10 provides data post boxes for the PFAS detected above the RL in monitoring wells for that monitoring event. As was observed in summary Table 5-5, M04-MW02, a Holocene sediment water well, and the monitoring wells in the vicinity of the fluoropolymer manufacturing area in general has the highest detections of PFAS and a larger number of PFAS detected than monitoring wells located farther away. For the

other monitoring wells with lower RLs in general for the October 2023 sampling event (AE11-MW01, D08-MW01, and E13-MW01), PFAS concentrations are similar to the maximum concentration detected with a few exceptions. PFOA in T13-MW01 is 4,700 ng/L, lower than the maximum detected in that well of 12,000 ng/L.

The presence of PFAS other than PFOA over time in monitoring wells has not been evaluated, and it is identified here as a data gap. Chemours will be generating trend graphs for select PFAS over time in on-site monitoring wells and performing quantitative evaluation and analysis beginning with the second half 2024 monitoring well results when those results are available.

5.3.5 PFAS in Production Wells and the River Intake

The presence and distribution of PFAS in on-site production wells and the river intake are provided below. Ohio River water is directly used via a river water intake to supply process water for the manufacturing process. The Ohio River is considered to be an off-site environmental media; therefore, PFAS results for Ohio River water are presented in Section 6.3.2. However, because river water is used for process water, PFAS results for the river water intake are provided here.

Table 5-7 provides a summary of the PFAS results for production wells sampled between September 2018 through October 2023. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that the specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected. The evaluation of PFAS concentrations over time in select production wells is identified as a data gap. Figure 5-10 and Table 5-8 provides the PFAS in production wells for the October 2023 sampling event. In addition, PFAS results for the East Well Field Header, which was sampled in December 2023 and for which the results were finalized in January 2023, are also included in Table 5-8 as these are the first set of PFAS results for this location. The East Well Field Header sample represents combined production water from the East Field wells operating at the time of sampling, which is used as water for the fluoropolymer manufacturing process. Table 5-9 provides a summary of the PFAS results for the river intake between September 2018 through October 2023. Table 5-10 provides the PFAS in the river intake for the October 2023 sampling event. Detections above the RLs also provided on Figure 5-11.

As with monitoring wells at the Site, presence and distribution of PFAS in the production wells vary with location as can be seen in Table 5-8. Overall, Tables 5-7 and 5-8 indicate that PFOA and HFPO-DA are present in the highest concentrations and are frequently observed at an order of magnitude higher than other PFAS. Depending on location, PFHxA, PFHpA, PFBA, PFDA, PFPA, and/or PFNA are generally measured at about an order of magnitude less than PFOA/HFPO-DA, and other PFAS observed are generally measured at an order of magnitude lower than that. In general, wells located closer to the fluoropolymer manufacturing process area, such as the Ranney Well, have higher concentrations and more PFAS detected. Wells within the East Field in general, have lower concentrations and fewer detections of PFAS, although even within the well field concentrations and detection vary. Concentrations of PFAS detected in AO08-PW01 and AQ09-PW01 are similar, whereas AX13-PW01 is located at the far eastern edge of the Site and has much lower concentrations of PFAS.

The West Well Field Header and the East Well Field Header represent the combined water from production wells pumping at the time of the sample collection from each of these two well fields. The summary of West Well Field Header in Table 5-7 shows PFOA and HFPO-Da are the highest maximum concentrations, with PFHxA, PFHpA, and PFPA present around an order of magnitude lower than PFOA, with several other PFAS present another order of magnitude lower. It is notable that PFHxS is present in the West Well Field Header at a maximum concentration of 270 ng/L. Table 5-8 and Figure 5-10 show that for the October 2023 sampling event the PFAS results are similar to the maximums shown in the summary table with PFOA detected at the highest concentration, HFPO-DA and PFHxS are an order of magnitude lower and ten other PFAS observed another order of magnitude lower compared to HFPO-DA and PFHxS. Twenty-seven PFAS were not detected above the RLs shown.

For the East Well Header, Table 5-8 and Figure 5-10 show that in December 2023, of the 40 PFAS analyzed, 30 were not detected above the RLs shown. PFOA and HFPO-DA were measured at the highest concentrations at 510 and 590 ng/L. Eight other PFAS were detected above the RLs with the maximum concentration being 22 ng/L. Because only one sampling event was conducted for the East Well Field Header, additional monitoring to understand the presence and distribution of PFAS over time is identified as a data gap in the On-Site CSM.

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These other sources may be related to the general presence of PFAS in industrial articles of commerce that may have been or are used at the Site and/or are possibly coming from off-site PFAS sources and this was identified as a data gap in Section 3.Table 5-9 provides a summary of the PFAS results for the river intake sampled between September 2019 through October 2023. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected. Table 5-10 provides the PFAS in the river intake for the October 2023 sampling event. Detections above the RLs also provided on Figure 5-10.

As with other on-site environmental media, the summary data for September 2018 through October 2023 in Table 5-9 show that the presence of PFOA and HFPO-DA is at the highest concentrations in river intake water, but that the ranges on these two PFAS observed are lower than in other on-site environmental media at maximum

concentrations of 210 ng/L and 89 ng/L, respectively. Six other PFAS were detected but at much lower concentrations with maximum concentrations of between 1.8 ng/L and 7.5 ng/L. Table 5-10 shows that in the October 2023 sampling event, four PFAS were detected above the RL and that the range in concentrations detected for these PFAS was 2.2 to 4.8 ng/L.

5.3.6 PFAS in Outfalls

PFAS in Process Outfalls

The Site's previous NPDES permit (effective September 3, 2003) included monitoring requirements for PFOA; the current permit (effective September 1, 2018) includes numeric limits for the discharge of PFOA and HFPO-DA. However, Modification No. 3, effective in the second quarter of 2019, requires additional outfalls be sampled for 18 PFAS. In addition, Chemours performed sampling events in August and September of 2018 and analyzed for a list of 46 PFAS. Beginning in November 2019, process water and stormwater outfall samples were analyzed for the 40 PFAS in EPA Method 1633 DRAFT.

Table 5-11 provides a summary of the PFAS results for process outfalls between August 2018 through December 2023. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that the specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected. The further evaluation of PFAS concentrations over time in select process outfalls is identified as a data gap. Table 5-12 provides the results for PFAS for the December 2023 sampling event and Figure 5-11 data post for detected PFAS.

Table 5-11 shows that PFOA and HFPO-DA have the highest maximum PFAS concentrations detected in the process water outfalls. As with groundwater, there are another 5 or so PFAS detected one or two orders of magnitude lower in concentration compared to the PFOA and HFPO-DA. Depending on location, these PFAS can include PFHxA, PFHpA, PFBA, and PFPA. Present at another order of magnitude lower than that set of PFAS is a third set and again depending on location may include PFNA, perfluorododecanoic acid (PFDoA), PFBS, and PFOS. However, as with the groundwater PFAS results, there are some locations where a specific PFAS is present at a relatively higher concentration, outside of the generalizations made above. For example, in Outfall 005, the maximum concentration of PFHxA (4,270 ng/L) is two orders of magnitude higher that the PFHpA (69 ng/L), and in Outfall 007, the maximum concentration of PFHxA (1,800 ng/L) is one order of magnitude higher that the PFHpA (170 ng/L) when typically these two PFAS are present at similar concentrations.

Table 5-12 and Figure 5-11 show that, for the December 2023 sampling event, PFOA and HFPO-DA or PFOA or HFPO-DA (depending on the outfall) are present at one or two orders of magnitude higher than the next highest concentration five or six PFAS and that there is another set of PFAS detected at an order of magnitude lower. Compared to the summary maximums for PFOA and HFPO-DA in Table 5-11, the December concentrations are in general an order or two of magnitude lower. This holds true for the "mid-range" PFAS concentrations in the summary tables as well (Outfall 007 PFHpA maximum concentration of 170 ng/L in Table 5-11 and a December 2023 concentration

of 22 ng/L and see Outfall 001 PFOS maximum concentration of 170 ng/L in Table 5-11 and a December 2023 concentration of 18.1 ng/L.

Variability between outfalls in Tables 5-11 and 5-12 also reflects that different manufacturing processes discharge to different outfalls and various abatement technologies have been installed both for some process water sources prior to use (Ranney Well GAC treatment system) and some wastewater prior to discharge (W-9). In addition, because this is an active manufacturing plant, other factors (such as shut downs, line breaks, etc.) also are likely responsible for the variability of PFAS results observed. In addition, while there are outfalls on the Site that manage stormwater only (see subsection directly below), stormwater is also discharged through some of the process water outfalls. Figure 2-11 provides the basins and catchment areas at the Site as well as the discharge point to the Ohio River for process outfalls and stormwater outfalls.

PFAS in Stormwater Outfalls

Table 5-13 provides a summary of the PFAS results for stormwater outfalls between September 2018 through October 2023. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that the specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected. The summary includes the PFAS analyzed, then for each PFAS the number of results, the frequency of detections above the RLs, the range in concentration, and the median detection. The evaluation of PFAS concentrations over time in select stormwater outfalls is identified as a data gap. Figure 5-12 and Table 5-14 provide the results for PFAS for the October 2023 sampling event.

Stormwater outfalls at the Site flow during precipitation events, but flow is variable at the individual outfalls due to the size and duration of the event and the respective drainage area. As stated above, and shown in Figure 2-11, location on the Site and related manufacturing operation in the vicinity influence the PFAS concentration observed in each stormwater outfall. Precipitation mobilizes PFAS deposited on the surfaces. How much stormwater and from where it comes from on the Site can influence the concentrations of PFAS measured. The concentrations of PFAS coming through an outfall can also be variable depending on whether or not the “first flush” of water is sampled, or if the sample is collected from later in the event. Given these complexities, Table 5-13 shows some similar observations on the maximum concentrations as were made with groundwater and process water outlets. PFOA and HFPO-DA, in general, have the highest maximum concentrations that are an order of magnitude to two above a second set of PFAS, which are an order of magnitude higher in concentration than a handful (3-6 depending on location) of PFAS in the low to single digit ng/L range. This observation is seen on Outfalls 30 through 36. However, for these outfalls, PFPA in general appears to have a maximum concentration similar to PFOA at several locations. In addition, Outfalls 011, 022, 023 and 025 all have overall relatively lower concentrations compared to Outfalls 30 through 36 with the maximum HFPO-DA ranging from 0.8 to 0.43 ng/L. The drainage basins for Outfalls 030 through 036 and 016 and 019 are adjacent to the Ohio River, collect water from paved surfaces that are close to and downwind from the fluoropolymer manufacturing areas. Outfalls 022, 023 and 025 are located on the southwestern side of the Site, away from the fluoropolymer manufacturing areas , and are mostly soil surfaces with no impermeable surfaces.

Outfall 011 drainage basin includes the part of the East Pad where the Roll-Off Staging Area release of PFOA and HFPO-DA occurred.

Table 5-14 and Figure 5-12 present the results of the October 2023 sampling event with the exception of Outfall 019, which was not sampled at that time. Data for that outfall are from May 2020, the most recent set of results and for which PFAS were analyzed instead of just PFOA and HFPO-DA. These data show essentially the same observations, which are that stormwater outfalls along the river have relatively higher concentrations compared to those located in the southwest corner of the Site.

5.3.7 Non-Targeted Analysis PFAS Results for On-Site Environmental Media

In addition to the PFAS results discussed for on-site environmental media presented in Section 5.3.1 through 5.3.6, which show that PFOA and HFPO-DA are the primary PFAS detected in on-site environmental media, Chemours collected samples from process water outfalls, production wells and one outlet from the Local Landfill, which discharges to Outfall 001, and performed non targeted analysis of PFAS (Chemours, 2023). The purpose of the non-targeted analysis was to screen for unknown PFAS present in these samples with detection limits in the 2 to 20 parts per billion (ppb) range compared to other targeted methods with detection limits in the 1 to 10 ng/L range.

The results of the non-targeted analysis detected the presence of five PFAS in the data set, four of which were detected in targeted methods (such as EPA Method 537, EPA Method 537.1, EPA Method 1633 DRAFT) and include PFOA, HFPO-DA, PFHxA and PFHpA. The fifth PFAS detected in the non-targeted analysis is perfluoropropionic acid (PFPrA), which is not included in the targeted method utilized commonly.

As indicated in Section 3.4, EPA issued an ACO under Section 309(a) of the Clean Water Act, 33 U.S.C. § 1319(a) to Chemours on April 5, 2023. Section III.44. of that ACO requires Chemours to implement the Sampling Plan (Exhibit 3 of the Order) to characterize the nature of the stormwater runoff and effluent wastewater leaving the Site by conducting specified PFAS sampling to identify and quantify PFAS discharges at each permitted Outlet[28] using draft EPA Methods 1621 (for absorbable organic fluorine) and 1633, total oxidizable precursor assay, and non-targeted analysis. In August 2024, Chemours submitted the report that contained the results for the stormwater runoff and effluent wastewater sampling event (see Appendix G). The results of that report showed the following:

- For the DRAFT EPA 1633 results, the new data presented show the same trends in concentrations discussed above in Section 5.3.6 with HFPO-DA and PFOA present typically at an order of magnitude higher than a second set of three to four PFAS, which vary depending on location at the Site and which are present at an order of magnitude above a third set of three to four PFAS, which are present at low ng/L concentrations.
- Notably, the DRAFT EPA 1633 results show sulfonate PFAS, PFOS, PFHxS, PFBS are present at very low to less than the reporting limit concentrations in this data set.
- For the TOP assay results, comparing the “Pre” and “Post” sample pair results, most of the “Post” results show lower concentrations than the “Pre,” which

[28] The ACO uses the term “Outlet” instead of “Outfall.” The numbering convention of “Outlets” matches that of the “Outfalls.”

indicates that there are no precursors present in the Site process water effluent and stormwater samples.

- For the NTA results, only one of the 20 samples, a stormwater sample collected at Outlet 016, showed the presence of suspect analytes and only one suspect analyte was identified. Nineteen of the 20 process water effluent and stormwater outlet samples were shown to have no non-targeted compounds identified, which indicated that there are no unknown PFAS or precursors present in these samples at the level of detection for the method.
- Because the AOF method is relatively new, Chemours declines to make observations on this data set.

5.4 On-Site PFAS Conceptual Site Model Summary and Data Gaps

The updated CSM for the Site presented here shows that PFAS historically migrated and currently migrate from the Site fluoropolymer manufacturing process via air emissions and water discharges to on-site environmental media. From the 1950s through 2013, PFOA was used as a processing aid for the fluoropolymer manufacturing at the Site. On-site environmental media sampled through 2013 were only analyzed for PFOA and although the presence of a suite of PFAS associated with the use of PFOA as the processing aid was not analyzed for, it is now assumed to have existed based on the presence of various PFAS in on-site environmental media. After 2013, HFPO-DA was used as a replacement chemistry for PFOA and continues to be used.

Historical (prior to 2013) air emissions and discharges to the Ohio River have resulted in the presence of PFOA and the associated suite of PFAS in on-site environmental media. Current (after 2013 to the present) air emissions and discharges to the Ohio River have and continue to result in the presence of HFPO-DA and the associated suite of PFAS in on-site environmental media. PFAS in air emissions can migrate to on-site surfaces and via precipitation to stormwater then to soil and then to groundwater, or to on-site surfaces and via precipitation to stormwater and to the river water. PFAS in process water and stormwater outfalls discharge to river water and river water recharges the Site groundwater. Site groundwater and river water are used as process water for the fluoropolymer manufacturing processes at the Site.

The remediation of the ADPs and consolidation of those materials under the RBL/ADPs landfill cap was performed September 2011 until July 2012. This landfill cap is an engineered system with a 40-millimeter HDPE geomembrane liner to minimize water infiltration into the landfill materials. This liner is covered with a geo-composite drainage layer followed by 18 inches of general fill soil and a 6-inch topsoil layer[29]. This cap system presents a barrier to infiltrating precipitation, which drains via the geo-composite layer. With infiltration eliminated at the cap, the ability for precipitation to infiltrate through the landfill materials has been reduced. In addition, abatement technologies installed, such as the Ranney

[29] *Riverbank Landfill IRM Complete Report*. URS Corporation. December 2013.

The PFAS data presented in Section 5.3.1 through 5.3.6 show that there are many PFAS that have been analyzed in on-site media that are not detected above the RLs. The distribution of PFAS in on-site environmental media also show that PFOA and HFPO-DA are the primary PFAS detected above the RLs in on-site environmental media and are present at the highest concentration compared to other PFAS. In general (but variable depending on sample location and environmental media), there are also approximately five to ten other PFAS detected at concentrations an order of magnitude or two lower than PFOA and HFPO-DA. Depending on sample location and environmental media, there are typically another five PFAS in on-site environmental media present at two to several orders of magnitude lower than the PFOA and HFPO-DA concentrations. Further, non-targeted analysis results show that only one unknown PFAS, PFPrA, was identified above the 2 to 20 ppb RLs that is not included in routine targeted PFAS analysis methods.

While the information presented in this Section shows the framework for the on-site PFAS sources and the transport mechanisms and migration pathways from those sources to on-site environmental media, and provides what is known on the presence and distribution of PFAS in on-site environmental media, this update of the On-Site CSM has revealed the following data gaps for on-site environmental media:

- Spent carbon from the GAC treatment system is regenerated by the supplier although the regeneration process is unknown to Chemours, and the specific regeneration process is identified here as a data gap.
- HFPO-DA and other PFAS have not been analyzed for in soils other than at the East Pad for the release assessment. Therefore, the presence and distribution of PFAS other than PFOA in Site soil are unknown and are identified as a data gap in the On-Site CSM.
- The presence and distribution of PFAS, other than limited results for PFOA, in the fractured bedrock monitoring wells is unknown and is identified here as a data gap.
- The evaluation of PFAS concentrations over time in select monitoring wells, production wells, and process and stormwater outfalls is identified here as a data gap.
- Blennerhassett Island production wells are also used for process water at the Site. The presence and distribution of PFAS other than PFOA in process water from the Blennerhassett Island production wells have not been determined and this is identified as a data gap in the On-Site CSM.
- Because only one sampling event was conducted for the East Well Field Header, additional monitoring to understand the presence and distribution of PFAS over time is identified as a data gap in the On-Site CSM.

Activities to be conducted to fill these data gaps will be proposed in the Sampling and Analysis Work Plan to be submitted within 90 calendar days of EPA's approval of this updated CSM as required by Section V.48 of the RCRA 3013 Order.

It is important to note that there are several ongoing on-site regulatory-driven PFAS monitoring programs that include sampling of monitoring wells, production wells, and process water and stormwater outfalls (i.e., the CMI and ACO). As new PFAS results are finalized for these programs, those data will be evaluated and used to continue to enhance and improve the On-Site CSM.

Other than the data gaps identified above, the information presented in Section 5 documents what is currently known regarding the presence and distribution of PFAS in on-site PFAS sources and the transport mechanisms and migration pathways from those sources to on-site environmental media.

6.0 Off-Site Conceptual Site Model

This section provides the updated Off-Site CSM, including information on off-site PFAS sources, transport mechanisms, and migration pathways to off-site environmental media and data confirming the presence and distribution of PFAS in those media.

Figure 6-1 presents a schematic cross section, which depicts the on-site PFAS sources and migration pathways to off-site environmental media. These on-site PFAS sources and migration pathways to off-site environmental media are also shown in the flowchart included as Figure 6-2. Figure 6-1 depicts the current PFAS sources and migration pathways (see Section 3.2 for a discussion of the terms “historical” and “current” and their use in this off-site CSM when referencing PFAS in emissions and discharges). However, PFAS in air emissions and in historical wastes managed on-site have resulted in the presence of PFAS in environmental media off-site and are depicted in the flow chart in dashed boxes in Figure 6-2. The current PFAS sources in water discharges and air emissions are not grouped together because PFOA was initially used in fluoropolymer manufacturing and then was replaced by HFPO-DA by 2013.

In Section 6.1, the on-site PFAS sources are described with the starting point, for discussion purposes, being the Washington Works fluoropolymer manufacturing processes. Numbers to the right of the symbols in the flow chart (Figure 6-2) are referenced in the subsections below, with the Washington Works fluoropolymer manufacturing processes being #1 in Figure 6-2. In Section 6.2, transport mechanisms and migration pathways to off-site environmental media are discussed. In Section 6.3, PFAS presence and distribution within off-site environmental media are provided.

6.1 PFAS Sources from the Washington Works Fluoropolymer Manufacturing Processes – Figure 6-2 #1

There are two historical migration routes from the fluoropolymer manufacturing processes (#1) to off-site environmental media (#6 and #7): air transport via historical emissions (#2) and water transport via historical stormwater outfalls (#3A) and process water outfalls (#3B), which discharged to the Ohio River from the 1950s through 2013. There are two current (after 2013) PFAS migration routes to off-site environmental media (Figure 6-2), air transport of HFPO-DA and associated PFAS via air emissions (#4), and water transport via stormwater and process water outfalls to the Ohio River (#5A and #5B).

6.1.1 Historical and Current Air Emissions – Figure 6-2 #2 and #4

Historical air emissions (#2) have been deposited on environmental media off-site (#6). PFOA and associated PFAS were emitted from the process stacks located in the fluoropolymer manufacturing areas of the Site. A discussion of the air emissions was provided in Section 5.1.1. The wind rose provided in Figure 5-5 and PFOA concentrations measured in residential wells and springs in Ohio and West Virginia show that PFOA-containing air emissions have historically migrated from the Site in all directions to some extent but wind flow was focused to the northeast during that timeframe. Deposition of PFOA and associated PFAS from historical air emissions and HFPO-DA and associated PFAS from current air emissions (#4) are the primary PFAS transport pathway to off-site environmental media.

6.1.2 Historical and Current NPDES Water Discharges to the Ohio River – Figure 6-2 #3A, #3B, #5A, and #5B

PFOA and associated PFAS in historical stormwater outfalls (#3A) and process water outfalls (#3B) and HFPO-DA and associated PFAS in current stormwater outfalls (#5A) and process water outfalls (#5B) have discharged and continue to discharge to the Ohio River.

In areas downstream from the Site and adjacent to the Ohio River, PFAS in off-site environmental media come from both the historical and current PFAS discharge via the outfalls and the historical and current PFAS-bearing air emissions. Groundwater pumped from the alluvial aquifers located adjacent to the river (#10) is used as drinking water (#16) as depicted in Figure 6-2.

6.2 PFAS Transport Mechanisms and Migration Pathways to Off-Site Environmental Media

The PFAS transport mechanisms and migration pathways discussed below are depicted schematically in Figure 6-2. The same migration pathways for historical and current PFAS-bearing air emissions to on-site media exist for these emissions to off-site environmental media. Historical air emissions were, and current air emissions are, deposited on permeable surfaces (#8), impermeable surfaces (#9) and surface water bodies such as the Ohio River (#10). If the depositional surface was the Ohio River, historical PFOA and associated PFAS that is in the river water, mixed with river water and migrated downstream from the Site or partitioned into river sediments. For off-site permeable surfaces (#8) such as lawns or gravel areas, PFAS migrated with precipitation (#17) downward via precipitation into the soil and subsurface soil and ultimately to groundwater (#11 through #16), migrating wherever groundwater flows. Alternatively, PFAS may have migrated in stormwater (#11) and/or soil (#12) via runoff or to the Ohio River (#10). For impermeable surfaces (#9) such as roofs and driveways, PFAS migrated (#18) with stormwater during precipitation events, wherever stormwater migrated, which was likely to permeable surfaces (#11 through 16) in rural areas.

PFAS from historical and current outfalls discharged and discharge to the Ohio River (#10) where it mixed and continues to mix with river water and migrates downstream from the Site or potentially present in river sediments as described further below as a data gap in Section 6.3.3. Regional groundwater supplies are typically obtained from the Ohio River alluvial terrace deposits (#16). The saturated portion of the highly permeable sediments of the alluvial terraces along the Ohio River comprise the principal regional aquifer for water supply purposes and supplies several of West Virginia's and Ohio's largest public water supply systems. The pumping of production wells within the alluvial terraces in Ohio and West Virginia next to the Ohio River induces river water to recharge the alluvial aquifer (#16) as depicted in Figure 6-1 and shown in Figure 2-10. The potential presence and distribution of PFAS in Ohio River sediment downstream of the outfalls are unknown and is identified as a data gap in Section 6.3.3. In the vicinity of the Site, Ohio River water may interact with river sediments because of the pumping of the various production wells and well fields at the Site.

Drinking water sources [private (#19) and public (#20)] that contain PFOA greater than the EPA 2016 Health Advisory (HA) of 0.07 ug/L (or 70 ng/L) are offered drinking water treatment by Chemours; whereas, treatment is not offered for drinking water sources that have less PFOA than the EPA 2016 HA (#21). PWSs are provided with GAC

treatment systems that typically are installed at PWS well fields (#22). Private drinking water can be treated as follows:

- Installing GAC treatment systems (#22) or
- By connection to a PWS with a GAC system or to a PWS with PFOA less than the EPA HA (#23) or
- By providing permanent bottled water (#24).

However, there are some situations where private drinking water wells do not have treatment for a number of different types of reasons, such as the well owner declined the Chemours treatment offer or is not responsive to the treatment offer (#25). Section 4.4.3 provided a statistical summary of those programs. Quarterly progress reports are submitted on an ongoing basis and are comprehensive.

6.3 PFAS in Off-Site Environmental Media

On November 3, 2005, a Memorandum of Understanding (MOU) was entered into between the EPA and DuPont for a PFOA Site-Related Environmental Assessment Program. The Charge of the MOU is as follows:

> *"Are current PFOA environmental releases and sources of those environmental releases from the Site and the presence of PFOA in environmental media on and around the Site sufficiently understood so that pathways of migration and exposure to PFOA associated with that Site are adequately characterized and assessed on a screening level basis?"*

As part of the investigations completed under the MOU, PFOA was monitored in several types of environmental media between 2002 and 2011. Information presented in this section includes the following:

- Section 6.3.1 PFAS in Off-Site Drinking Water: Drinking water sources (Private and public) have been sampled extensively within the current investigation area by DuPont and Chemours since 2001. PFAS data for approximately the past five years are presented and discussed.
- Section 6.3.2 PFAS in Off-Site Surface Water: Ohio River surface water has been sampled several times between 2002 and present by several organizations including DuPont, Chemours and EPA.
- Section 6.3.3 PFAS in Off-Site Sediment: EPA analyzed small stream sediments in West Virginia and Ohio in 2022-2023.
- Section 6.3.4 PFOA in Off-Site Groundwater: Groundwater was sampled for PFOA from temporary well points at the Little Hocking Water Association well field in Ohio in 2002 and 2006.
- Section 6.3.5 PFOA in Off-Site Soil: Soil associated with the groundwater sampling in 2002 at the LHWA well field. In addition, in 2005 and 2011, soil was sampled at private residences in West Virginia and Ohio in 2005 following dry

time periods and wet time periods. Further, soil was again sampled for PFOA from some of those same locations in 2011.

- Section 6.3.6 PFOA in Off-Site Ambient Air: Ambient air was sampled and analyzed for PFOA in 2005 at the same private residences in West Virginia and Ohio where soil was sampled for the wet and dry time period events.
- Section 6.3.7 PFOA in Off-Site Rain: Rain was sampled and analyzed for PFOA in 2005 at the same private residences in West Virginia and Ohio where soil was sampled for the wet and dry time period events.
- Section 6.3.8 PFOA in Off-Site Small Mammals: Small mammals were sampled for PFOA in 2005 from the LHWA well field.
- Section 6.3.9 PFOA in Off-Site Fish: Two species of fish were sampled for PFOA from a location in the Ohio River downstream of the Site Outfalls.
- Section 6.3.10 PFOA in Off-Site Produce: Produce was sampled for PFOA from the same location where soil was sampled in West Virginia and Ohio in 2011.
- Section 6.3.11 PFOA in Off-Site Beef and Beef Fodder: Beef and beef fodder were sampled from the one location in Ohio where beef is raised and from where soil and produce were sampled in 2011.

Appendix K provides the PFAS results for off-site environmental media presented in Section 6.3.1. Sections 6.3.2 and 6.3.3 provide PFAS data for surface water and sediments that were generated by EPA. Appendix L provides the PFAS results generated by EPA.

6.3.1 PFAS in Off-Site Drinking Water

In this section, PFAS results for private water supplies and PWSs in West Virginia and Ohio that were sampled by DuPont or Chemours as part of their surveying and sampling program are presented. Following that information are PFAS results for three PWSs in the vicinity of the Site that were sampled in 2019 by the USGS working in cooperation with the West Virginia Department of Environmental Protection (WVDEP) and West Virginia Department of Health and Human Resources (WVDHHR).

Surveying and PFOA Sampling of private water supplies and PWSs in West Virginia and Ohio first began in 2001 and continued under various regulatory programs and legal orders. Surveying and sampling of private water supplies and PWSs is ongoing under the Safe Drinking Water Act FAOC, which was effective as of January 6, 2017, when EPA, DuPont, and Chemours agreed to amend the 2009 Consent Order in accordance with the terms and conditions contained in the FAOC. Additional details of the surveying and sampling programs are included in Section 4.3.1.

The most recent 2009 Consent Order as Amended Quarterly Progress Report (QPR) titled *2023 Annual and Quarterly Progress Report No. 28 – 2009 Consent Order as Amended* (AECOM, 2024b) includes validated sampling results through December 12, 2023 for PFAS obtained for new drinking-water sources sampled and from the monitoring of GAC treatment systems installed at private water systems and PWSs.

At select private and public water systems, sampling for HFPO-DA, in addition to PFOA, began in the first quarter of 2018 at the request of EPA. In addition, on a voluntary basis as of April 20, 2022, Chemours began analyzing private drinking water samples by EPA Method 537.1, which reports 18 PFAS, including PFOA and HFPO-DA. At this same

time, the RL was voluntarily changed by Chemours from 0.010 µg/L to 0.002 µg/L (from 10 to 2 ng/L), adjusting for dilution and sample volume for PFAS for the private and public water sampling programs. Further, in the third quarter of 2022, residential GAC system PT samples were also analyzed by EPA Method 537.1 for 18 PFAS by Chemours on a voluntary basis. Then, on a voluntary basis, in the third quarter of 2023, the annual private GAC system PT samples were analyzed by EPA Method 1633 DRAFT, which reports 40 PFAS to a RL of 0.002 µg/L, including PFOA and HFPO-DA.

PFAS in Private Drinking Water – DuPont and Chemours Investigation

Figures 1 and 2 in the *2023 Annual and Quarterly Progress Report (QPR) No. 28 – 2009 Consent Order as Amended* (AECOM, 2024b), reproduced here as Figures 6-3 and 6-4, show locations of private drinking water sources (wells and springs) that have or had PFOA greater than 0.07 µg/L or above the treatment criterion at the time the source was sampled. Figure 6-3 provides the locations of private drinking water sources where GAC treatment system have been installed. Figure 6-4 provides the locations of private drinking water sources, which have been connected to a PWS or have bottled water provided or are included in other situations as described in Table 7 of the that report. Figure 3 from that QPR, reproduced here as Figure 6-5, shows the locations of private drinking water sources sampled that had PFOA less than 0.07 µg/L or were below the treatment criterion at the time the source was sampled. Note that these three figures are comprehensive and show results generated from previous surveying and sampling programs, many of which are outside of the current investigation area that is indicated by the blue outline in the figures.

Table 6-1 provides the summary of the PFAS results for private water supplies. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that the specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs[30]. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected. Prior to April 26, 2022, only PFOA was analyzed in the residential samples. After that date, additional PFAS beyond PFOA were analyzed as was described above. Therefore, in Table 6-1, the top row provides statistics for PFOA data collected under the FAOC from 2016 through December 12, 2023 as well as the third quarter 2023 GAC system PT sampling event. The lower portion of the table provides the summary statistics for new residential samples collected and analyzed after April 26, 2022 through December 12, 2023 as well as the results for the third quarter PT sampling of GAC systems in 2022 and 2023 for which other PFAS in addition to PFOA were analyzed.

Table 6-1 shows that of the 40 PFAS analyzed for in the private drinking water data set, only 17 have results detected above the RLs. In addition, of those 17, six were detected infrequently, specifically only in seven or fewer samples. Five more frequently detected and higher concentration PFAS that may be related to historical and/or current air and/or water discharges from the Site are HFPO-DA, PFOA, PFHxA, PFHpA, and PFBA.

[30] Amongst the same sample locations collected over time, RLs may be variable due to method differences and or due to adjustments made for sample volumes and/or dilutions.

The data for detections in these samples were used to identify the PFAS for which a set of dot maps would be generated to display the presence and distribution of PFAS detected above the RL in this data set. Then, the dot maps were developed using whichever was the most recent result or set of results available from 1) the results analyzed for 40 PFAS via EPA 1633 DRAFT, or 2) the results analyzed for 18 PFAS via EPA 537.1, or 3) the result analyzed for PFOA only. PFAS dot maps developed are listed below:

- Figure 6-6: Chemours Private Drinking Water Sample Location Map
- Figure 6-7: Chemours Private Drinking Water – PFOA Dot Map
- Figure 6-8: Chemours Private Drinking Water – PFHpA Dot Map
- Figure 6-9: Chemours Private Drinking Water – PFHxA Dot Map
- Figure 6-10: Chemours Private Drinking Water – PFBA Dot Map
- Figure 6-11: Chemours Private Drinking Water – PFBS Dot Map
- Figure 6-12: Chemours Private Drinking Water – PFPA Dot Map
- Figure 6-13: Chemours Private Drinking Water – PFHxS Dot Map
- Figure 6-14: Chemours Private Drinking Water – PFOS Dot Map
- Figure 6-15: Chemours Private Drinking Water – HFPO-DA Dot Map
- Figure 6-16: Chemours Private Drinking Water – PFOSA Dot Map
- Figure 6-17: Chemours Private Drinking Water – Other PFAS Dot Map

Note that the dot map concentration ranges are unique to each PFAS shown as indicated in the figure legends.

These dot maps show that there are similar patterns in the distribution of PFOA, PFHxA, PFHpA and to a lesser extent HFPO-DA. For these PFAS, concentrations are higher closer to the Site and to the northeast and decrease with increasing distance from the Site. PFHxA and PFHpA were residuals in the APFO used until 2000, so it not unexpected that the distribution of these two PFAS would be similar to that of PFOA. HFPO-DA replaced PFOA as a site processing aid since 2013, so the similarities in the presence of PFOA and HFPO-DA is also not unexpected. However, HFPO-DA has been used for a shorter timeframe (2013 through the present compared to the time from the 1950s to 2013) and abatement technologies have been installed that have resulted in reduced concentrations of PFAS in Site air emissions overall and subsequently the areal footprint of HFPO-DA is smaller as is shown in the dot map figures. In addition, there are localized detections (or hot spots) in the PFOA, PFHxA and PFHpA dot maps that are higher than surrounding detections.

As noted in the Interstate Technology Regulatory Council PFAS Fact Sheet 2 Naming Conventions and Use, in Table 2.6 within subsection 2.5 PFAS Used and Products, there are multiple commercially available articles of commerce from industries and applications that used PFAS, which may be found in a typical private residence including

automotive materials, biocides (herbicides and pesticides), building and construction materials, cosmetics and personal care products, guns and ammunition, household and cleaning products, paper and packaging, and textiles (upholstery, carpets), leather, and apparel (2.5 PFAS Uses and Products – PFAS — Per- and Polyfluoroalkyl Substances (itrcweb.org)). Therefore, localized “hot” spots, particularly with sulfonate PFAS, which have been identified in the private drinking water PFAS dot maps are likely present due to use, management, and disposal of these types of articles of commerce, which are unrelated to PFAS use in the fluoropolymer manufacturing processes at Washington Works. Chemours knows of no such database that tracks private use of these products on a local level such that other sources of PFAS could be definitively identified within the private drinking water data set. However, the use, management, and disposal of these types of PFAS-bearing articles of commerce by private drinking water well owners is identified here as a data gap.

While informative, the dot map analysis was limited in the conclusions that could be drawn with respect to source determination. This limitation is due to the potential for sources unrelated to the Site, although the presence of sources unrelated to the site is undetermined and is a data gap. However, to further evaluate if unique PFAS fingerprints, defined as distinct, recognizable combinations of PFAS observed in connection with a specific source, could be identified in the drinking-water data set, AECOM performed a PFAS statistical forensics analysis (AECOM, 2024a) using the same data set as was used for the dot map analysis.

Environmental statistical forensics is a multidisciplinary process that makes use of powerful statistical and data analytics methods to assess multiple types of data (e.g., chemical, geospatial, historical, and hydrogeological). Pattern-recognition techniques and compositional mixture analysis can be used to identify indicator compounds and contaminant sources for specific chemical families such as PFAS. The objective environmental statistical forensics analysis aims to impartially reveal groupings (i.e., clusters) of similar observations so that relationships within the data set can be successfully explored and modeled. The use of statistical methods, such as principal component analysis (PCA) and hierarchical clustering to differentiate chemical mixtures, is not new. In the chemical sciences, this approach has been used for decades in a wide range of applications from identifying adulterated food products to discerning distinct petroleum releases (Brereton, 2009). Recently, the widespread accessibility to statistical computing through open-source platforms like R Statistical Software (2023) has grown alongside the need for more powerful tools to investigate PFAS in the environment. This has led to the demonstration of a wide range of statistical applications in PFAS investigations, ranging from the identification of novel PFAS molecules in analytical chemistry applications (McCord and Strynar, 2019) to using PCA and hierarchical clustering to link PFAS mixtures found in blood serum to specific dietary exposure sources (Hu et al., 2018).

The statistical approach applied to the data set in this analysis is consistent with robust combinations of these same methods used by several others to investigate and define PFAS sources (Yao et al., 2014; Zhang et al., 2016; Munoz et al., 2017; Guelfo and Adamson, 2018; Hu et al., 2018; McCord and Strynar, 2019; Stoiber et al., 2020; Luo et al., 2021; Zheng et al., 2021; Ruyle et al., 2021). Based on the broad adoption of these methods in published PFAS research, there is a growing consensus that these multivariate statistical methods provide one of the most valid, effective ways to differentiate and evaluate PFAS sources.

Conceptually, the outcome of the forensic statistical analysis is a multivariate profile referred to colloquially as a PFAS fingerprint. The PFAS mixture proportions for each sample are the inputs that ultimately isolate individual groups with similar PFAS compositions; however, this is only one part of the fingerprinting process. A full fingerprint is defined by the aggregated characteristics of those PFAS mixture groups, including correlations and spatial distribution within the groups, much as an actual fingerprint is a two-dimensional collection of uniquely arranged lines and multiple fingerprints represent a single identity. Additional details of the PFAS statistical forensics analysis performed here are provided in the attached report provided as Appendix M.

During the statistical analysis, unsupervised pattern recognition via PCA and hierarchical clustering provided groups of similar chemical signatures for further exploration and identification of specific source fingerprints based on the full chemical, statistical, and spatial profile. In doing so, four clusters were identified.

PFAS in Public Water Supplies – DuPont and Chemours Investigation

GAC treatment systems have been installed by Chemours at 10 PWSs and one transient non-community water system (TWS) along the Ohio River in West Virginia and Ohio, excluding the GAC system for the Site (Figure 6-18). Prior to March 2023, PWS GAC system PT samples were analyzed for PFOA, or HFPO-DA and PFOA if HFPO-DA was detected. After March 2023, PWS GAC system samples were analyzed for the 18 PFAS by EPA 537.1. However, if HFPO-DA was not detected in the first four month's results, it was removed from the analyte list. In addition, Chemours voluntarily sampled the Parkersburg Public Service District (PSD) untreated water for 18 PFAS in February 2023.

Table 6-2 provides a summary of the PFAS results for PWS GAC treatment PT samples between 2018 through 2023. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that the specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected. Because there is only one set of PFAS results for Parkersburg, those data are not summarized in Table 6-2. Summary information for the PWSs and TWS in Table 6-2 is presented by geographic location from north to south as shown in Figure 6-18.

The summaries provided in Table 6-2 for the PWS shown in Figure 6-18 indicate that ten PFAS are detected at the eight PWS located upstream and in the immediate vicinity of the Site and including the Site, although not all ten PFAS detected are detected at each of these eight PWSs, only PFOA, PFHxA, and PFHpA are detected at each of these PWSs. HFPO-DA is detected at PWSs closer to the Site including at BELPSD, LHWA, the Site PWS (ONSITE GAC), and LPSD, but is not detected in the PWSs located further upstream or downstream of the Site. PFOS, PFBS and PFHxS are present at highest concentrations in VPSD1, 2, and 3 and BELPSD, while these PFAS are at lower concentrations or not detected above the RL at LHWA, the ONSITE GAC and LPSD. For PWS further downstream from the LPSD, the PFAS detected are generally in the less than 10 ng/L range although maximum PFOA concentrations at Tuppers Plains and Letart over time were 17 and 10 ng/L. PFBS for these same PWSs is relatively low, but is present at a maximum of 9.7 ng/L at the Village of Pomeroy PWS. In general, PWSs downstream from the Lubeck PWS have lower detections of fewer PFAS compared to PWSs near or upstream of the Site reflecting that the presence of PFOA, PFHxA, PFHpA and HFPO-DA at these PWSs is likely attributable to Site historical and current air emissions.

Figure 6-18 and Table 6-3 provides the PFAS in PWS PT samples for the November 2023 sampling events and also shows the PFAS detected above the RL in February 2023 at the Parkersburg PSD untreated water because this is the only PFAS event that has taken place by Chemours. The same observation of more PFAS and higher detection near and upstream of the Site with fewer PFAS and lower detections downstream of the Site.

PFAS in Public Water Supplies – USGS, WVDEP and WVDHHR Investigation 2019

In 2019, the West Virginia Legislature passed a resolution that required a statewide PFAS study. The purpose of the resolution was to understand the occurrence and distribution of PFAS contamination throughout the State's rivers, lakes, and groundwater aquifers. The USGS worked in cooperation with the WVDEP and WVDHHR to collect raw-water samples at 279 public-water systems across West Virginia. Public-water systems sampled for this study were identified by the WVDHHR and included all community water systems in the State and all daycares and schools that operate their own water systems. Sampling was completed between June 2019 and May 2021, and the results were made available in a report issued by the USGS[31].

Included in this study were three PWS along the Ohio River located in the vicinity of the Site, two upstream to the north and one downstream to the south. Although the PWSs sampled in this study are not identified in the publication, it appears that one is located in the vicinity of the City of Vienna (likely the same well field as the Vienna1 GAC system installed by Chemours), one in the vicinity of Parkersburg and one in the vicinity of Lubeck (likely where Chemours installed the GAC system for the Lubeck PDS). In that study, analysis was completed for 28 PFAS using a modified version of EPA 537.1. A summary of the data in this publication related to these three PWS includes the following:

[31] *Occurrence of Per- and Polyfluoroalkyl Substances and Inorganic Analytes in Groundwater and Surface Water Used as Sources for Public Water Supply in West Virginia – Scientific Investigations Report 2022-5067*. United States Geological Survey. Reston, VA 2022. https://pubs.usgs.gov/sir/2022/5067/sir20225067.pdf. Accessed February 2024.

- PFOA plus PFOS were detected at greater than 70 ng/L at these three PWS.
- Seven or more PFAS were detected at the furthest to the north PWS and the southern PWS, while the PWS closest to the north had detection of three to four PFAS.
- The PWS located furthest to the north had a total PFAS of greater than 300 ng/L to 500 ng/L, while the PWS closest to the north had a total PFAS of greater than 100 to 300 ng/L and the southern PWS had a total PFAS concentration of greater than 500 ng/L.
- HFPO-DA was not detected at the RLs in the publication at these three PWS.

If the PWS samples are indeed the ones identified in the text above, the data are similar in PFAS detected and the magnitude of those detections between the USGS results and those generated by Chemours.

6.3.2 PFAS in Off-Site Surface Water

PFAS have been monitored in off-site surface water several times since the VI and RFI investigations of PFOA at the Site in the 1990s. PFOA was monitored in the Ohio River from locations up to 26 miles upriver from the Site and up to 53 miles downstream of the Site by DuPont in 2002 and in 2011. ORSANCO monitored PFAS in the Ohio River in 2021 and 2022, including at three locations within the same stretch of river sampled by DuPont in 2002 and 2011. Ohio River water adjacent to the Site was recently sampled by Chemours for 20 PFAS between February 2022 and February 2023. In addition, surface water bodies in creeks and streams in West Virginia and Ohio were sampled for PFAS by EPA in 2022 and 2023.

PFOA in Ohio River Water – 2002 and 2011

Included in this off-site environmental media sampling was sampling of surface water in the Ohio River. PFOA was sampled from locations up to 26 miles upriver from the Site and up to 53 miles downstream of the Site in the Ohio River in 2002 and again in 2011.

Ohio River water sampling program was completed between June 25, 2002 and October 17, 2002, when the river was at normal river stage conditions and sampling could be safely conducted. River water was sampled at up to three depths [dip (surface), mid-column, and bottom] and at up to three locations along the transects (WV-side, center, and OH-side). Twelve transects in the Ohio River were completed and their locations are shown in Figure 6-19. These transects were located as far as 26 miles upstream of the Site and 53 miles downstream of the Site. Table 6-4 provides the PFOA results for these samples. The range in concentration of PFOA in Ohio River water in 2002 was from not detected [ND (< 10 ng/L)] to a maximum of 1,050 ng/L.

The Ohio River water PFOA results collected in 2002 show that PFOA concentrations were ND or not quantifiable (NQ) for all transects upstream of the Site and Outfall 005, the outfall with the highest concentration of PFOA at that time and largest volume of water discharged. In general, for samples collected near Outfall 005, the higher concentrations were measured closer to the bank while the lower concentrations were measured further out into the river from the outfall. Concentrations in the river were detectable from near Outfall 005 and up to 18 miles downstream, and these concentrations decreased with increasing distance from Outfall 005.

PFOA sampling was repeated at many of the same locations in 2011 when the river was at normal river stage conditions and sampling could be safely conducted. PFOA results

for the 2011 sampling are provided in Table 6-5. Figure 6-19 provides the location that was resampled. River water was sampled at many of the same locations that were sampled in 2002, although a few additional further downstream river water sampling points were added adjacent to selected PWS well fields where PFOA concentrations were also being monitored. Where only one location on the transect in the river was to be sampled, river water was sampled at mid-channel from two depths, surface and mid-column. Adjacent to the Site where two or three locations on the transect in the river were resampled, river water was sampled as shown in the blow-up in Figure 6-19; and at each point, surface and mid-column depths were sampled. Table 6-5 presents the PFOA results for the 2011 river water samples. Concentrations of PFOA in river water ranged from NQ (<9.2 ng/L) to a maximum of 200 ng/L.

Figure 6-19 also provides a comparison of the 2011 river water PFOA results from the 2002 sampling. Direct comparison of the results from 2002 and 2011 is complicated by the significant lowering of the analytical detection limits between 2002 and 2011. However, the following observations can be made:

- For locations with results that were ND in 2002 and are NQ in 2011 (Stations 1 through 3), the LOQ for the 2011 results (<0.0092 µg/L or <9.2 ng/L) is comparable in 2011 to the limit of detection (LOD) for 2002 (<0.01 µg/L or <10 ng/L). These results indicate that there was essentially no change in PFOA concentration upstream of the Site between 2002 and 2011.
- There are several locations adjacent to the Site that had detectable concentrations of PFOA in 2011 that were ND in 2002 (Stations 4A through 6B). With the exception of the surface samples from locations 5A and 6A, the 2011 concentrations are approximately equal to or less than the LOD of 0.01 µg/L (10 ng/L) determined for the samples analyzed in 2002.
- For all locations downstream of the Site with detectable PFOA in both 2002 and 2011 (Stations 7 through 12), the concentrations measured in 2011 are, in most cases, less than those measured in 2002 by an order of magnitude or more.

ORSANCO PFAS Sampling of the Ohio River in 2021

During 2021 and 2022, the ORSANCO conducted a study to determine the ambient PFAS concentrations in the Ohio River from near Toronto, Ohio to near Belview, Kentucky (https://www.orsanco.org/programs/pfas/). The report and data tables from this sampling (*Ambient PFAS Levels in the Ohio River*[32]) show that three of these sampling locations are approximately within the stretch of the Ohio River sampled in 2002 and 2011. These three sampling points, at river miles 159.22 near Eureka, West Virginia, 207.90 near Long Bottom, Ohio and 257.6 near Cheshire, Ohio, are also shown in Figure 6-19. Two rounds of sampling were completed at these three locations in 2021.

Samples were analyzed for 28 PFAS as shown in the downloadable table at the link above. Of these 28 PFAS, only five were detected above the RLs and not all five were detected in all samples from both events for these three locations. Figure 6-19 provides the results for PFAS detected above the RLs for the two sampling events at these three locations. The five PFAS detected above the RLs were PFOA, PFBA, HFPO-DA, PFBS, and PFPA, At the sampling location upstream of the Site, (river mile 159.2), the maximum PFAS concentration detected was 5.75 ng/L for PFBS. At the river mile

[32] *Ambient PFAS Levels in the Ohio River*. Ohio River Valley Water Sanitation Commission. June 17, 2022. https://www.orsanco.org/data/ambient-pfas-levels-in-the-ohio-river/. Accessed February 2024.

location 207.9, located downstream of the Site, the maximum concentration detected was 8.47 ng/L for PFBA. At the third location at river mile 257.6, the maximum concentration detected was 13.60 ng/L for HFPO-DA. Although HFPO-DA is discharged through the Site outfalls, HFPO-DA was not detected above the RL in the sample closest downstream of the Site. The origin of HFPO-DA at this location, which is well over 50 river miles downstream from the Site, is uncertain.

PFAS Sampling of the Ohio River – 2022 and 2023

Ohio River water at four locations adjacent to the Site was recently sampled by Chemours for 20 PFAS between February 2022 and February 2023. During these same events, additional samples were also collected at the surface, mid column and the bottom of the water column, but these samples were only analyzed for PFOA and HFPO-DA. Table 6-6 provides a summary of the PFAS results for Ohio River water sampled between February 2022 through February 2023. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that the specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected.

Table 6-6 shows that for the Upstream Grab samples six of the 18 PFAS are detected above the RL, but that the maximum concentration detected was 7.4 ng/L. PFAS that were detected and the concentration measured are similar to those observed in the ORSANCO data set. For the Downstream Middle Grab samples, in general, the same set of PFAS are detected and within the same range in concentrations observed for the upstream grab samples with one exception. In the downstream grab samples, the maximum PFPA concentration is 40 ng/L compared to 3.7 ng/L for the upstream grab samples. PFOA and HFPO-DA concentrations in the Downstream East, Middle and West at all three column depths are essentially the same although slightly higher in the East and West compared to the Middle.

Figure 6-20 and Table 6-7 provide the PFAS detected above the RL in Ohio River water samples for the February 2023 sampling event. This data set shows that of the 20 analyzed PFAS, none were detected above the RLs in February 2023 at the Upstream and Downstream locations. However in the Downstream transect and depth samples, PFOA and HFPO-DA were detected, but were the only PFAS analyzed. For the depth samples the same observation is made of slightly higher concentrations in the East and West locations compared to the Middle for PFOA and HFPO-DA.

Summary of Ohio River Water PFAS Results

Sampling during both events was completed during normal river stage conditions when sampling could be safely conducted. Concentrations of PFAS measured by ORSANCO in 2021 and Chemours in 2023 show in general the same set of PFAS detected, and detections are relatively low and within the same order of magnitude.

PFAS in Surface Water Investigated by EPA

In August 2022, EPA sampled surface water at 29 locations in Ohio and analyzed those samples for 25 PFAS. In February 2023, a second set of surface water locations were

sampled in Ohio and those results were analyzed for 44 PFAS. In May 2023, EPA sampled 10 surface water locations in West Virginia and those samples were also analyzed for 44 PFAS. Figure 6-21 provides the surface water sampling locations in West Virginia and Ohio. Note that the locations of the EPA surface water data set extend well beyond the location of the Chemours private drinking water data set shown in Figure 6-6. Table 6-8 provides summary results for the EPA surface water samples. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that the specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected.

Of the 25 or 44 PFAS analyzed in EPA's surface water samples, Table 6-8 shows 11 PFAS were detected above the RL. Of these 11, only two, PFOA and PFOS were detected above the RLs more than two times. PFOA was detected in 28 of the 71 samples and PFOS was detected in 7 of the 71 samples. Figure 6-21 provides the locations of the EPA surface water samples. Note that the EPA data set extends well beyond the Chemours private drinking water data set shown in Figure 6-6. Dot maps were generated for PFOA, PFOS and the other detected PFAS as listed below:

- Figure 6-22: EPA Surface Water - PFOA Dot Map
- Figure 6-23: EPA Surface Water – PFOS Dot Map
- Figure 6-24: EPA Surface Water – Other PFAS Dot Map

The PFOA dot map for surface water (Figure 6-22) shows a mix of not detected results (black dots) and detections up to 50 ug/L (blue dots) with a few higher concentrations mixed in that are comparable in concentration to the PFOA results for drinking water sources sampled by Chemours in this same area (Figure 6-7). The PFOS dot map (Figure 6-23) and the Other PFAS dot map (Figure 6-24) show that the detections measured are randomly located with higher concentration further from the Site. The exception to this is the HFPO-DA detection to the southwest of the Site because the HFPO-DA results for drinking water sources sampled by Chemours in this same area (Figure 6-15) also shows one detection above the RL.

PFAS in Surface Water used as Drinking Water Investigated by Chemours

There were 30 drinking water springs sampled under the FAOC. Twenty-one springs had PFOA concentrations less than the EPA 2016 HA of 0.07 µg/L. The remaining nine springs qualified for treatment and have had GAC treatment systems installed. For these 30 springs, Table 6-9 provides the PFAS results for the most recent sampling for these springs with sample dates provided. Figure 6-25 also provides the PFAS results in Table 6-9 with the most recent PFOA result shown as a dot map and the detections of other PFAS above the RLs posted in data boxes. In general, these results also show higher PFOA concentrations located closer to the Site and to the northeast. Other PFAS detections are less than 10 ng/L.

6.3.3 PFAS in Off-Site Sediment

In August 2022, EPA sampled sediment at eight locations in Ohio and analyzed those samples for 25 PFAS. In May 2023, EPA sampled sediment at ten locations in West Virginia and analyzed those samples for 25 PFAS. Figure 6-21 provides the sediment sampling locations in West Virginia and Ohio. Table 6-10 provides summary results for

the EPA sediment samples. Note that the location of the EPA sediment data set extends well beyond the location of the Chemours private drinking water data set shown in Figure 6-6. This summary table provides a list of PFAS that have been analyzed in these samples, the number of times that the specific PFAS has been analyzed, and the number of times that the specific PFAS has been detected above the RLs. For each PFAS, the range in RLs is provided for PFAS not detected above the RLs. For each PFAS detected above the RLs, a count of the number of detections above the RLs is provided as well as the range in concentrations detected.

Table 6-10 shows that of the 25 PFAS analyzed in EPA's sediment samples, 10 PFAS were detected above the RL. Of these 10, only two, PFOA and PFOS were detected above the RLs more than five times. PFOA was detected in 14 of the 18 samples and PFOS was detected in 12 of the 18 samples. Based on the detection above the RLs for these sediment samples, dot maps were generated for PFOA, PFOS and the other detected PFAS as listed below:

- Figure 6-26: EPA Off-Site Sediment Dot Map - PFOA
- Figure 6-27: EPA Off-Site Sediment Dot Map - PFOS
- Figure 6-28: EPA Off-Site Sediment Dot Map – Other PFAS

Although the locations sample are spread throughout a large sampling area, the PFOA dot map (Figure 6-26) for sediment for the West Virgina locations appears to show random distribution of concentrations with no trend with distance from the Site. For the Ohio locations there appears to be a hot spot with the highest PFOA detected at a significant distance from the Site to the northeast with lower concentrations located closer to the Site. The PFOS dot map (Figure 6-27) shows similar distribution of concentration as well as a hot spot at the same location as within the PFOA data set. The Other PFAS dot map (Figure 6-28) shows that several of the sampling locations closer to the Site have no other detection of other PFAS, while locations further away from the Site do have detections above the RL in the tens to hundreds of nanograms per kilogram (ng/kg). In addition, the detections of those other PFAS, including HFPO-DA, are well outside of the areal distribution of these PFAS (Figures 6-8, 6-11, 6-15, and 6-17) in drinking water locations.

The EPA sediment data set did not include sampling of sediment in the Ohio River. Further, no sampling of Ohio River sediments has been completed by Chemours; therefore, the presence and distribution of PFAS in the sediments downstream of the Site outfalls are identified as a data gap. If the presence of PFAS is determined to be relatively significant compared to PFAS from other transport pathways, then additional evaluation of other sediment-related media (such as suspended particles) may be proposed.

6.3.4 PFOA in Off-Site Groundwater

The majority of the off-site groundwater sampled by DuPont and Chemours is groundwater that is used as drinking water, either for private water sources or for public water supplies. Results for groundwater used as drinking water supplies are provided in Section 6.3.1.

However, there were two investigations conducted by DuPont at the LHWA well field (the PWS located immediately north of the Site in Ohio on the other side of the Ohio River shown in Figure 2-11 and depicted in Figure 6-1), one in August 2002 and a second in April 2006. The first well field investigation included 1) drilling, logging of soil

and sampling (groundwater and soil) soil borings/monitoring wells, 2) monitoring groundwater elevations in all production and monitoring wells, and measuring river stage, and 3) sampling of groundwater from production and monitoring wells. The second investigation in 2006 involved the drilling, logging and sampling of groundwater and soil from the installation of five additional shallow monitoring wells (TW-6S and TW-12S through -15S) and three additional deep monitoring wells (TW-13D through TW-15D) at the LHWA well field, as well as resampling of the monitoring wells sampled in 2002. Groundwater sampling locations for the temporary borings installed in 2002 and the monitoring wells sampled in 2002 and resampled in 2006 are provided in Figure 6-29. Table 6-11 provides the groundwater results from the temporary boring installed in the August 2002 investigation. Table 6-12 provides the result for the monitoring wells sampled in 2002 and resampled in 2006 and the five shallow and three deep monitoring wells installed and sampled in 2006. (The soil results from the August 2002 and April 2006 investigations are presented in the next section.)

Table 6-11 shows that the concentrations of PFOA in groundwater from temporary borings ranged from not detected (<50 ng/L) to 75,000 ng/L. Because the LHWA well field is located in Ohio immediately across the Ohio River from the Site in Ohio (Figure 6-18), and PFOA had been used at the Site and was present in air emissions for decades, concentrations in these of orders of magnitude were not unexpected. In general, this table also shows lower PFOA concentrations with increasing sample depth, but the results are variable. However, variability in the groundwater data is expected because the rate and direction of migration of precipitation (and therefore the concentration of PFOA) likely changes due to several factors including the amount of precipitation migrating downward, the different permeabilities of the various lithologies encountered (silty clay versus sand and gravel), and whether the lithology is unsaturated or is saturated.

The comparison of the concentration of PFOA in the test wells from 2002 and 2006 provided in Table 6-12 shows in general higher concentrations of PFOA in 2006 compared to earlier sampling events, although, concentrations in Test Well 4 decreased over time. Again, given the location of the well field with respect to the Site, it is not unexpected that concentrations in groundwater would increase over time as PFOA in soil continues to leach via precipitation to groundwater.

6.3.5 PFOA in Off-Site Soil

Little Hocking Water Association, Ohio, Soil Sampling

As was stated in the previous section, LHWA soil was sampled in 2002 and 2006 at the locations indicated in Figure 6-29 during the installation of temporary wells in 2002 and during the installation of monitoring wells in 2006. Soil PFOA results are provided in Tables 6-13 and 6-14, respectively.

The soil results provided in Table 6-13 show that PFOA is found on the surface soil and throughout the subsurface in unsaturated and saturated soil. Soil data collected from borings NW-1 and SW-1 show the highest concentrations of PFOA measured were in surface soils and that lower concentrations were measured in the unsaturated zone and even lower concentrations (ND) were observed within the saturated aquifer sediments.

The soil results from the April 2006 investigation (Table 6-14) indicate that, as was observed in the soils from the first investigation, the PFOA concentrations are generally highest near the surface and decrease with increasing depth. In addition, the concentration of PFOA in surface soils in 2002, at 160 J and 110 micrograms per

kilogram (µg/kg), was higher than the range in surface soil concentrations in 2006 (approximately 30 to 60 µg/kg).

Residential Soil Sampling In Ohio and West Virginia in 2005

Additional off-site soil sampling was completed as part of the multimedia sampling completed in 2005. DuPont conducted a surface soil/grass sampling program at various locations within two miles of the Site in West Virginia and Ohio to evaluate the occurrence and distribution of PFOA within the organic-rich portion of the soil/grass column (grass shoots, grass seeds and grass flowers, and litter layer identified as the 0-1" sample) and within the mineral-rich portion of the soil/grass column (root, root zone, and soil below the root zone identified as the 1 to 6-inch sample). A 0 to 6-inch sample was also collected for comparison (as indicated by no depth interval in the sample ID). Sampling was conducted following two weather conditions, "dry" and "wet." The "dry" event was conducted on September 12, 2005, and the "wet" event was conducted on October 21, 2005. Surface soil/grass sampling for the "dry" and "wet" events were conducted at the locations indicated in Figure 6-30.

Tables 6-15 and 6-16 provide the PFOA results for the off-site soil/grass sampling for the "dry" and "wet" events, respectively. At the top of these tables are summaries by sample depth of the individual sampling data that are presented in the table. Figure 6-31 provides the average PFOA soil results for samples collected during the dry and wet events for each location. In general, the concentrations of PFOA in soils from within a 1-mile radius of the Site are higher than those from within a 1- to 2-mile radius of the Site.

Soil was also sampled associated with the sampling of small mammals at the LHWA in October 2005 (Section 6.3.8, below). These samples were collected close to soil sampling Station #5. Results of that sampling are provided in Table 6-17.

Residential Soil Sampling In Ohio and West Virginia in 2011

In 2011, soil was resampled at several of the locations sampled in 2005 but was also sampled at locations within the 2- and 5-mile radius from the Site. The purpose of this sampling was to see if PFOA concentrations had changed over time for soil resampled in 2011 and to monitor PFOA in other environmental media not sampled previously such as home-grown produce (Section 6.3.10 below). These sampling locations are shown in Figures 6-32 and 6-33. A soil sample was collected at each location from which homegrown produce was also sampled concurrently with the sampling of one of the produce types.

Results for the resampling of soil are provided in Table 6-18 and are shown in Figure 6-34. Table 6-18 shows that PFOA results for the 19 soil samples collected in Ohio ranged from non-quantifiable [NQ (<1.9 µg/kg)] to 17.6 µg/kg. PFOA results for the 10 soil samples collected in West Virginia ranged from NQ (<1.5 µg/kg) to 33 µg/kg. The soil result from the background location in Maryland was ND (<0.983 µg/kg).

Table 6-19 provides PFOA results for soil samples collected from the same locations during both soil sampling events. These locations are WV-2, WV-3, OH-11 and OH-12. This table shows that in 2005, four samples were collected at each location, two samples collected following a dry period from depths of 0 to 1 inch and 1 to 6 inches and two samples collected following a wet period from the same two depths.

Summary of Off-Site Soil Results

In summary, the off-site soil results show that in general, higher PFOA concentrations are detected closer to the Site and concentrations decrease with increasing distance from the Site. In general, PFOA concentrations are higher to the northeast of the Site. Where PFOA was sampled from various depths below ground surface, concentration decreased with increasing depth.

6.3.6 PFOA in Off-Site Ambient Air

The presence of PFOA in off-site ambient air was monitored in 2005 using the same methods as were used for the on-site fence line monitoring (Section 5.3.1). Some of the off-site sampling locations sampled for ambient air PFOA concentrations were also used for the multimedia sampling in West Virginia and Ohio. These locations are provided in Figure 6-30. Note that two on-site locations were included in this sampling and that results for those locations are provided here. PFOA results for OVS tubes and high volume samplers are presented in Tables 6-20 and 6-21. The average particle size distribution measured at each sampling station is provided in Table 6-22. Figure 6-35 provides the ambient air results averaged over the nine events.

For all the events, the highest PFOA concentrations for OVS tubes and the high-volume sampler were from these on-site sampling locations (Stations #10 and 11). These results were anticipated as these locations are closest to the air emission sources. Table 6-20 shows that the majority of the sample events for the off-site locations, OVS tubes results were ND or NQ. For events where PFOA was detected and excluding the Site fence line monitoring Stations (#10 and 11), OVS tube results ranged from 0.6 ng/m^3 to 4.8 ng/m^3. The range in PFOA measured at fence line monitoring Stations #10 and #11 was non-detect to 60.2 ng/m^3. Table 6-21 shows that excluding the Site fence line monitoring Stations (#10 and 11), the range in PFOA measured for all other monitoring stations in the 2-mile radius was 0.01 ng/m^3 to 11.9 ng/m^3 for the high-volume samplers. The range in PFOA measured at fence line monitoring Stations #10 and #11 was 10.7 ng/m^3 to 75.9 ng/m^3. Figure 6-35, which presents the averaged ambient air results, shows that the highest concentrations of PFOA in ambient air are at the Site and then decrease with increasing distance from the Site but with higher concentration observed to the northeast of the Site.

Table 6-22 provides the averaged size distribution for the events at each sampling station. This table shows that PFOA monitored at all air monitoring stations was predominantly (about 90%) in the particulate phase. This result indicated that deposition of air emissions was a key transport pathway for the CSM for migration from on-site

sources to off-site environmental media because particles are more easily deposited than vapor.

6.3.7 PFOA in Off-Site Rain

Rain data were collected during the one of the ambient air sample events discussed in the section above. Rain was sampled during Event 1 on August 25 and 26, 2005. Results for PFOA in rain are provided in Table 6-23 and are summarized in Figure 6-36. Table 6-23 shows that, while the majority of the PFOA results are NQ at the LOQ shown, the range in concentration for off-site locations was 10.2 to 52.9 ng/L. The on-site location PFOA result was 1,660 ng/L. The distribution of these results shown in Figure 6-36 are not aligned with the predominant wind direction shown in Figure 5-5. On that day, the wind was out of the southeast and directed the plume toward the northwest. This wind pattern accounts for the higher rain concentration in the northwest quadrant. Results confirm the presence of PFOA in rain near the Site and suggest the importance of wet deposition as a transport mechanism for the CSM for migration to on-site and off-site environmental media near the manufacturing area.

6.3.8 PFOA in Off-Site Small Mammals

The purpose of the small mammal sampling was to collect small mammals from a location close to the Site (the LHWA well field, Figure 6-30) and test selected small mammal blood and liver for the presence of PFOA. The meadow vole (*Microtus pennsylvanicus*) was selected for the investigation because it was present at the well field and is almost exclusively herbivorous with insects comprising a very small percentage of the diet. The meadow vole was also selected as the target species because these characteristics are optimal for identifying the occurrence of PFOA in a small mammal species. The premise of the small mammal sampling effort was that small mammals could be exposed to PFOA via dermal contact, ingestion, or inhalation of PFOA in the air and water, via dermal contact with or ingestion of vegetation containing PFOA or via dermal contact by burrowing in soil containing PFOA.

The LHWA well field was selected because it is located directly downwind from the Site. The Potomac River Works Site (which was owned by DuPont at that time) in Falling Waters, West Virginia (Figure 6-37) was selected as a suitable background location because 1) it is beyond the influence of PFOA emissions from the Site; 2) it possessed significant acreage of undisturbed habitat similar to the habitat at the LHWA property; and 3) there was no recent history of cutting the grasslands.

A sufficient number of individuals of the target species were trapped from both the Site and reference areas to obtain 10 one-gram liver masses and 10 one-milliliter plasma samples from each location. Based on weight and reproductive stage, the animals were divided into the following four groups:

- Juvenile males
- Juvenile females
- Adult males
- Adult females

Compositing of samples based on the four categories listed above was deemed necessary to obtain the requisite volumes of plasma and liver for analyses and to test for variations due to sex and level of development.

Tables 6-24 through 6-27 provide the PFOA results for plasma and liver for the LHWA and background locations, respectively. The PFOA results for all of the plasma and liver samples from both LHWA and the background location were ND at the LODs shown. However, PFOA was detected in grass and soil samples collected at the same time and in the same location as the small mammals (Table 6-17), which was unexpected because the diet of the meadow vole is almost exclusively herbivorous with insects comprising a very small percentage of the diet. Concentrations of PFOA in the grass, 0 to 1-inch soil, and 1 to 3-inch soil are 51.6 µg/kg, 43.7 µg/kg, and 85.1 µg/kg, respectively.

6.3.9 PFOA in Off-Site Fish

The purpose of the fish sampling program was to collect target fish from two locations in the Ohio River, downstream of Site Outfall 005 (Figure 6-30) and approximately 26 miles upstream of the Site (Figure 6-37), to determine the presence or absence of PFOA in fish tissue. Species with different habitat preferences and foraging modes were considered in the target species selection process. Predatory fish are excellent indicators of contamination from potentially bioaccumulative compounds. Bottom fish may accumulate chemicals through direct contact or through the ingestion of benthic invertebrates, detritus, or small fish associated with the benthos. Based on this information, the following species were targeted for sampling:

- Largemouth bass (Micropterus salmoides)
- Channel catfish (Ictalurus punctatus)

In addition, three tissue types were analyzed for PFOA from each fish sample:

- Fillets
- Viscera, including the liver
- Carcass

The fish samples were subdivided in this manner so that whole body PFOA concentration could be determined later, if deemed necessary.

- The area immediately below Outfall 005 represents a portion of the river that potentially receives PFOA from the Site; thus, fish collected from this area may be exposed to PFOA in the water discharge. The upriver area was selected as a suitable reference, or background, location because 1) it is beyond the influence of PFOA emissions from the Site, and 2) it contains similar habitat as the area downstream of Outfall 005. The Ohio River in the vicinity of Outfall 005 at the Site and at the background area is approximately 1,500 feet wide and is deep enough to allow for the operation of a boat-mounted electrofishing unit. Both areas contain suitable habitat for the two target fish species

On October 4, 2005, URS ecologists initiated fish sampling activities in two areas of the Ohio River. Efforts were made to collect fish from a range of sizes because it is unknown whether PFOA is present at higher concentrations in older (and larger) fish.

Tables 6-28 through 6-31 provide the PFOA results for the catfish and bass from near Outfall 005 and from the background sampling location, respectively. At the top of these tables, the average, maximum and minimum PFOA concentrations for each subsample (filet, viscera, and carcass) are provided. In general, viscera samples have higher concentrations than do filet or carcass samples for both species. The summary data at

the top of these tables indicate that with the exception of viscera from catfish collected near the Site, ranges and averages for each media (filet or carcass) are similar at both locations and in both species. However, there is a single result of 1440 ng/g (dry-weight basis) from the Site catfish samples that causes the average and maximum result for viscera to be much greater than all other viscera average or maximum results. If this one data point is removed, the average viscera PFOA concentration is for Site catfish is 16.60 ng/g (dry-weight basis) and is well within the range of averages observed for the background viscera samples. No correlation was observed when comparing PFOA concentration measured to the species, location, age, sex, or length of the samples.

6.3.10 PFOA in Off-Site Produce

The presence of PFOA in off-site produce was monitored at off-site locations in West Virginia and Ohio in 2011 as shown in Figures 6-32 and 6-33. Soil sampling at these same locations was discussed in Section 6.3.5. At select locations, irrigation water was also sampled. In addition to the sampling locations for homegrown produce in Ohio and West Virginia, a background sampling location in Elkton, Maryland, was identified (Figure 6-37). Based on interviews with the residents, the following homegrown produce types were identified for sampling:

- Tomatoes
- Peppers
- Green beans
- Cucumbers
- Potatoes

Produce sampling began on August 2, 2012, and was completed by September 12, 2012. Specific sampling dates are provided in Table 6-32. Locations sampled were visited several times in order to collect the desired produce types as it ripened for consumption. The five produce types identified for sampling were not always available at each location depending on the resident's growing plans and factors beyond the resident's control, such as weather conditions, plant health, and biological activity.

Table 6-32 provides the PFOA results for homegrown produce collected in West Virginia, Ohio, and at the background location in Maryland. In total, 65 produce samples were collected in Ohio, 38 in West Virginia, and five in Maryland at the background location. Of the 103 total homegrown produce samples collected within the 5-mile radius of the Site, only two had detectable amounts of PFOA. The two samples were green bean samples from Ohio at locations OH-8 and OH-11 (Figure 6-32). PFOA concentrations at OH-8 and OH-11 were 0.89 J µg/kg and 0.98 µg/kg, respectively. The remaining 101 produce samples measured ND for PFOA with the LOD ranging from <0.44 µg/kg to <0.51 µg/kg. The background location produce samples also were ND for PFOA with a LOD of <0.49 µg/kg or <0.50 µg/kg.

While WV-3 had the highest concentration of PFOA detected (33 µg/kg) in soil (Table 6-18), there was no PFOA detected in any of the produce samples at this location. Conversely, at the two locations in which produce samples did have detectable amounts of PFOA, OH-8 and OH-11, the PFOA in soil measured 2.8 µg/kg and 11 µg/kg, respectively, significantly lower than the 33 µg/kg measured at WV-3. In addition, PFOA concentrations in soil at the seven locations where untreated irrigation water was also sampled ranged from 1.7 µg/kg to 12 µg/kg (Table 6.33). PFOA concentrations in

the untreated irrigation water sources used to water the seven gardens at these locations ranged from ND (<0.0034 µg/L) to 10 µg/L. However, no PFOA was detected in the homegrown produce samples from these seven locations.

6.3.11 PFOA in Beef and Beef Fodder

Sampling of locally raised beef within the survey area was proposed at two locations, one in Ohio and one in West Virginia, based on the initial farmer interviews that showed that these farmers consumed the beef they raised. The two farm locations were expected to provide a range of PFOA concentrations and exposure potential, ranging from approximately five miles upwind (south) of the Site to approximately one mile downwind (northeast) of the Site. The farmer at location OH-11 (the location downwind of the Site, Figure 6-32) gave DuPont permission to sample beef tissue and fodder (food and water sources). However, the farmer in West Virginia ultimately decided not to slaughter any cattle during the fall or winter of 2011 or spring of 2012; therefore, sampling beef tissue was not possible at the location in West Virginia.

The sample of beef tissue was obtained from OH-11 on February 17, 2012. However, the sample was frozen when collected because the farmer forgot to notify DuPont when the animal was slaughtered in December 2011, and the beef was frozen after being processed. The sample consisted of a 1,248-gram cut of beef from the shoulder with the bone in. Due to previous problems with samples being lost in shipment, the beef sample was cut in half and 709 grams were sent to the laboratory for analysis, and 539 grams were maintained frozen by the field sampler.

A sample of hay fed to the cattle at OH-11 was also collected on February 17, 2012. The hay was grown in a field on the OH-11 farm. The sample collected consisted of 69 grams, of which 32 grams were sent to the laboratory for analysis and 37 grams were frozen and maintained by the field sampler.

Analytical results for beef, hay and untreated cattle water from OH-11 are provided in Table 6-34. The PFOA concentration in the hay measured 66 µg/kg. The PFOA concentration in the four untreated cattle water sources ranged from 9.2 µg/L to 19 µg/L. Although the hay and untreated water sources for the cattle did contain PFOA, the result for the beef tissue samples measured ND (<0.43 µg/kg) for PFOA.

6.4 Off-Site PFAS Conceptual Site Model Summary and Data Gaps

This updated Off-Site CSM shows that two types of on-site sources of PFAS have and continue to migrate to off-site environmental media. These are air emissions and discharges to the Ohio River that are the starting points from which PFAS can migrate to other environmental media, although, other pathways of migration are possible. As with the On-Site CSM, PFAS in air emissions can migrate to off-site surfaces and via precipitation to stormwater then to soil and then to groundwater, or to off-site surfaces including the Ohio River and potentially river sediments. Off-site groundwater is used for drinking water, and, where identified to have PFOA greater than the EPA 2016 HA, treatment is provided by Chemours. PFAS in process water and stormwater outfalls discharge to river water and river water recharges PWS well field adjacent to the river downstream of the Site, and, where identified to have PFOA greater than the EPA 2016 HA, treatment is provided by Chemours.

From the 1950s through 2013, APFO/PFOA was used as a processing aid for the fluoropolymer manufacturing at the Site. Off-site environmental media sampled through 2013 were only analyzed for PFOA and although the presence of a suite of PFAS

associated with the use of APFO/PFOA was not analyzed for, it is now assumed to have existed based on the presence of various PFAS in on-site environmental media. After 2013, HFPO-DA was used as a replacement chemistry for PFOA and continues to be used. PFOA and the associated suite of PFAS that was present during its use are likely mixing in with the HFPO-DA and the associated suite of PFAS that are likely present currently due to using HFPO-DA as the processing aid. Historical (prior to 2013) air emissions and discharges to the Ohio River have resulted in the presence of PFOA and likely the associated suite of PFAS in off-site environmental media.

PFAS in historical and current air emissions likely have migrated from the Site to the northeast, but also in all directions. The analysis of PFOA results in environmental media sampled from within a two-mile radius of the Site in 2005 has shown the presence of PFOA in ambient air, rain, soil, groundwater, and drinking water likely a result of the dry and wet deposition of those air emissions, although. The analysis of PFOA results in environmental media sampled from within a five-mile radius of the Site in 2011 has shown the presence of PFOA in soil, groundwater, drinking water, fish (filet, viscera and carcass), and surface water used for cattle, but not in small mammal blood or liver and only in two of 103 produce samples. Results for PFOA in these environmental media from 2005 and 2011, in general, show higher concentrations of PFOA closer to the Site and to the northeast and decreasing PFOA concentrations with increasing distance from the Site.

Although not specifically identified as a data gap, resampling of soil and groundwater at the locations within the five-mile radius of the Site, which were sampled in 2011, for a longer list of PFAS, including PFOA, would allow for the continued evaluation of the presence of PFOA over time for some of those media and would allow for the determination of the presence and distribution of other PFAS in those environmental media. In addition, sampling of surface water and associated sediment at locations within the five-mile radius to determine the presence and distribution of PFAS closer to the Site than the locations sampled by EPA should be evaluated. Sampling of sediments in the Ohio River near Site outfalls has been identified as a data gap. If the presence of PFAS is determined to be relatively significant compared to PFAS from other transport pathways, then additional evaluation of other sediment-related media (such as suspended particles) may be proposed. Activities proposed to complete this multimedia sampling within five miles of the Site and to fill the data gaps listed above will be proposed in the Sampling and Analysis Work Plan to be submitted within 90 calendar days of EPA’s approval of this updated CSM as required by Section V.48 of the RCRA 3013 Order.

Drinking water sources were sampled for PFOA beginning in 2001. Beginning in April 2022 drinking water sampled was analyzed for 18 PFAS. PT samples for locations where GAC treatment system have been installed were analyzed for 40 PFAS in the third quarter of 2023. Evaluation of these results has allowed for the determination of the presence and distribution of 17 PFAS in drinking water within the current EPA approved investigation area. Of these 17 PFAS, six are detected above the RLs at lower concentrations and frequency compared to the other 11 PFAS detected. The presence and distribution of those 17 PFAS show that there are essentially five that are associated with the Site and that, as with PFOA detected in environmental media within a five-mile

radius of the Site, concentrations in drinking water are higher closer to the Site and to the northeast, and that in general, PFOA concentrations decrease with increasing distance from the Site. In addition, PFOA results for drinking water sources show that in general, the geographic edges of the current investigation area define the geographic area where PFOA concentrations are less that the EPA 2016 HA of 70 ng/L. Chemours has installed GAC treatment systems (or provided alternative treatment) where PFOA is above the EPA 2016 HA of 70 ng/L at private drinking water sources, as required by the FAOC.

In addition to PFAS in historical and current air emissions, PFAS in historical and current discharges to the Ohio River have resulted in PFAS migration to off-site environmental media downstream of the Site including Ohio River water, possibly Ohio River sediments (which is identified as a data gap in Section 6.3.3), and groundwater in PWS well fields located along the Ohio River. PFAS results for sampling of Ohio River water upstream and downstream of the Site (Section 6.3.2) shows a limited number of PFAS detected above the RLs and relatively low concentrations compared to concentrations of PFAS in process water and stormwater outfalls. PWSs upstream and downstream along the river have been sampled and Chemours has installed GAC treatment systems where PFOA is above the EPA 2016 HA of 70 ng/L, as required by the FAOC. Ohio River sediments adjacent to the Site have not yet been sampled and sediment sampling will be proposed in the Sampling and Analysis Work Plan to be submitted within 90 calendar days of EPA's approval of this updated CSM as required by the RCRA 3013 Order.

Section 6 provides the information known regarding the framework of on-site PFAS sources and the transport mechanisms and migration pathways from those sources to off-site environmental media. The current presence and distribution of PFAS other than PFOA in off-site drinking water have been established. The current presence and distribution of PFOA in off-site drinking water have also been established, as well as the geographical extent of PFOA above the EPA 2016 HA of 70 ng/L as required by the FAOC. The presence and distribution of PFOA in groundwater, produce, fish, small mammals, surface water within 2 miles of the Site were established for 2005 and for within five miles of the Site were established in 2011. However, the current presence and distribution of PFAS, including PFOA, in soil, groundwater, surface water and associated sediment within five miles of the Site should be determined. Further, the presence and distribution of PFAS in Ohio River sediment adjacent to the Site should be evaluated.

Surveying and sampling of private water supplies and PWSs is ongoing under the Safe Drinking Water Act FAOC, in accordance with the terms and conditions contained in the FAOC. As new PFAS results are finalized for this program, those data will be evaluated and used to continue to enhance and improve the Off-Site CSM.

7.0 Summary and Data Gaps of the Updated On-Site and Off-Site CSMs

The observations on the environmental setting (Section 2) and data gaps identified are summarized as follows:

- The geology, hydrogeology, and hydrology framework for the Site is summarized as follows.
  - Terraces of silt, clay, and sand overlie the Site alluvial aquifer, which consists of unconsolidated sand and gravel. Underlying this is weathered bedrock and bedrock consisting of shale and sandstone. Hydraulic conductivity in the alluvial aquifer is significantly higher than in the bedrock.
  - The direction of groundwater flow at the Site between the alluvial aquifer and the underlying bedrock is a data gap.
  - USGS data show that the river elevation can increase above normal elevations but does not decrease below 582 feet (the pool elevation of the Ohio River). As shown in the water elevation maps in Appendix C, groundwater elevations in the alluvial aquifer are, with very few exceptions, consistently lower than 582 feet.
  - Water elevations in the Site alluvial aquifer are lower than the river due to the pumping of high-volume on-site production wells. The amount of water being removed annually is higher than can be explained by infiltration of rainfall. Assuming that this volume of groundwater is not coming from the bedrock (shale and sandstone), then it is attributed to infiltration of river water recharging the alluvial aquifer. These production wells run continuously for Site use,
  - Concurrently, some of that river water is being drawn back into the alluvial aquifer due to the gradient induced by the production wells.

The observations on the Site PFAS use and management (Section 3) and data gaps identified are summarized as follows:

- APFO/PFOA was used as a polymer processing aid for Site fluoropolymer manufacturing from the 1950s through 2013 when the Site fully transitioned to using HFPO-DA as the polymer processing aid.
- One data gap identified is that the presence, handling, and use of common industrial articles of commerce which may contain PFAS, including sulfonate PFAS, at the Site are unknown and are identified here as a data gap.

- Additional abatement technologies are being installed, or are being planned for future installation, that will be designed to meet the requirements of the NPDES permit and the ACO to reduce PFAS concentrations in current air emissions and outfall discharges to the Ohio River. Ongoing PFAS sampling of the on-site sources and on-site and off-site environmental media will be used to understand the relationship between the reduction of PFAS in on-site sources and the change of PFAS concentrations in the on-site and off-site environmental media.

The observations on the Site RCRA CA, corrective measures implementation and non-RCRA corrective action (Section 4) and data gaps identified are summarized as follows:

- Under the SDWA FAOC, drinking water sources with PFOA greater than the EPA 2016 HA of 0.070 µg/L are offered treatment by Chemours. Locations where GAC treatment system are installed by Chemours are included in the Chemours ongoing OM&M program.
- No data gaps were identified related to Site RCRA CA, corrective measures implementation, and non-RCRA corrective action.

7.1 Summary of the Updated On-Site CSM and Data Gaps

The updated PFAS On-Site CSM can be summarized as follows:

- The information presented in this updated on-site CSM shows the framework for the on-site PFAS sources and the transport mechanisms and migration pathways from those sources to on-site environmental media and provides what is known regarding the presence and distribution of PFAS in on-site environmental media.
- The updated PFAS On-Site CSM indicate that PFAS historically migrated and currently migrates from the Site fluoropolymer manufacturing process via air emissions and water discharges to the Ohio River, which are primary sources of PFAS that can migrate to on-site environmental media. This does not rule out other pathways as being potential contributors.
- Secondary PFAS sources may be associated with equipment, material handling, leaks, and spills related to infrastructure.
- PFAS in Title V permitted air emissions migrates to on-site surfaces via wet and dry deposition and via precipitation to stormwater then to soil and then to groundwater, or to on-site surfaces and via precipitation to stormwater and to the river water. PFAS in NPDES permitted process water and stormwater outfalls discharge to the Ohio River and river water recharges the Site alluvial aquifer. Site groundwater and river water are used as process water for the fluoropolymer manufacturing processes at the Site.
- Historically the concentrations of PFAS emissions to on-site environmental media were higher than they are now because of several factors including the remediation of the ADPs and consolidation of those materials under the RBL/ADPs landfill cap, the installation of abatement technologies in the

manufacturing process, and the installation of a GAC treatment system for the Ranney Well to remove PFAS prior to its use as process water.

- Lower concentrations of PFAS in air emissions result in lower amounts of PFAS migrating to on-site surfaces, stormwater, soil, and groundwater.
- The PFAS data presented in this report show that PFOA and HFPO-DA are the primary PFAS detected above the RLs and are present at the highest concentration compared to other PFAS.
- In general (but variable depending on sample location and environmental media), there are also approximately five to ten other PFAS detected at concentrations an order of magnitude or two lower than PFOA and HFPO-DA as shown in the data tables presented here for Site water.
- Depending on the sample location and environmental media, there are typically another five PFAS present in on-site water at two to several orders of magnitude lower than the PFOA and HFPO-DA concentrations as shown in the data tables presented here for Site water.
- Other than the data gaps identified below, the information presented in Section 5 presents what is known about the on-site PFAS sources, the transport mechanisms, and migration pathways from those sources to on-site environmental media.

The following bullets summarize the data gaps identified while updating the On-Site CSM for the Site:

- Spent carbon from the GAC treatment system is regenerated by the supplier although the regeneration process is unknown to Chemours and the specific regeneration process is identified here as a data gap.
- HFPO-DA and other PFAS have not been analyzed in soils other than at the East Pad for the release assessment. Therefore, the presence and distribution of PFAS other than PFOA in Site soil are unknown and are identified as a data gap in the On-Site CSM.
- The presence and distribution of PFAS, other than limited results for PFOA, in the on-site fractured bedrock monitoring wells is unknown and is identified here as a data gap.
- The evaluation of PFAS concentrations over time in select monitoring wells, production wells, and process and stormwater outfalls is identified here as a data gap.
- Blennerhassett Island production wells are also used for process water at the Site. The presence and distribution of PFAS other than PFOA in process water from the Blennerhassett Island production wells have not been determined, and this is identified as a data gap in the On-Site CSM.

- Because only one sampling event was conducted for the East Well field header, additional monitoring to understand the presence and distribution of PFAS over time is identified as a data gap in the On-Site CSM.

7.2 Summary of the Updated Off-Site CSM and Data Gaps

The updated Off-Site CSM for the Site is summarized as follows:

- The updated Off-Site CSM shows that on-site sources of PFAS that have and continue to migrate to off-site environmental media. These are Title V permitted air emissions and NPDES permitted discharges to the Ohio River.
- Off-site groundwater is used for private water, and, where identified to have PFOA greater than the EPA 2016 HA, treatment is provided by Chemours. PFAS in process water and stormwater outfalls discharge to river water, and the river water recharges the PWS well field adjacent to the river downstream of the Site. Where identified to have PFOA greater than the EPA 2016 HA, treatment is provided by Chemours.
- The analysis of PFOA results in environmental media sampled from within a two-mile radius of the Site in 2005 has shown the presence of PFOA in ambient air, rain, soil, groundwater, and drinking water, likely a result of the dry and wet deposition of those air emissions.
- The analysis of PFOA results in environmental media sampled from within a five-mile radius of the Site in 2011 has shown the presence of PFOA in soil, groundwater, drinking water, fish (filet, viscera and carcass), and surface water used for cattle.
- Results for PFOA in these environmental media from 2005 and 2011, in general, show higher concentrations of PFOA closer to the Site and to the northeast and decreasing PFOA concentrations with increasing distance from the Site.
- PFOA concentrations in private drinking water are higher closer to the Site and to the northeast, and that in general, PFOA concentrations decrease with increasing distance from the Site. However, the distribution of concentrations detected in drinking water also show that at some locations, PFAS concentrations higher than adjacent locations are observed.
- In addition, PFOA results for drinking water sources show that in general, the geographic edges of the current investigation area define the geographic area where PFOA concentrations are less than the EPA 2016 HA of 70 ng/L.

- The presence of PFOA in off-site environmental media was established in 2005 and 2011.
- The information presented in Section 6 shows what is known about the on-site PFAS sources, the transport mechanisms, migration pathways from those sources to on-site environmental media.

The following bullets summarize the data gaps identified while updating the Off-Site CSM for the Site:

- Although not specifically identified as a data gap, resampling of soil and groundwater at the locations within the five-mile radius of the Site, which were sampled in 2011, for a longer list of PFAS, including PFOA, would allow for the continued evaluation of the presence of PFOA over time for some of those media and would allow for the determination of the presence and distribution of other PFAS in those environmental media.
- In addition, sampling of surface water and associated sediment at locations within the five-mile radius to determine the presence and distribution of PFAS closer to the Site than the locations sampled by EPA should be evaluated.
- Ohio River sediments adjacent to the Site have not yet been sampled and sediment sampling is identified as a data gap. If the presence of PFAS is determined to be relatively significant compared to PFAS from other transport pathways, then additional evaluation of other sediment-related media (such as suspended particles) may be proposed.
- The use, management, and disposal of PFAS-bearing articles of commerce by private drinking water well owners and evaluating this potential source is also identified as a data gap.

7.3 Path Forward

Activities to be conducted to fill the data gaps identified for the On-Site and Off-Site CSMs will be proposed in the Sampling and Analysis Work Plan to be submitted within 90 calendar days of EPA's approval of these updated On-Site and Off-Site CSMs as required by Section V.48 of the RCRA 3013 Order.

In addition, it is important to note that there are several ongoing on-site regulatory-driven PFAS monitoring programs that include sampling of monitoring wells, production wells, and process water and stormwater outfalls (i.e., the CMI and ACO). As new PFAS results are finalized for these programs, those data will be evaluated and used to continue to enhance and improve the On-Site CSM.

Further, the surveying and sampling of private water supplies and PWSs is ongoing under the SDWA FAOC, in accordance with the terms and conditions contained in the FAOC. As new PFAS results are finalized for this program, those data will be evaluated and used to continue to enhance and improve the Off-Site CSM.

8.0 References

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Tables

Table 1-1
PFAS Abbreviations
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Compound Full Name*	Abbreviation Used in Report Tables and Figures	Alternate Abbreviations Used in EPA Data**
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid	11Cl-PF3OUdS	
Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonic Acid)	9Cl-PF3ONS	
4,8-Dioxa-3H-perfluorononanoic Acid	DONA	
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic Acid	HFPO-DA	Hfpo Dimer Acid
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	
Perfluorobutanesulfonic Acid	PFBS	
Perfluorobutanoic Acid	PFBA	
Perfluorodecanoic Acid	PFDA	
Perfluorododecanoic Acid	PFDoA	
Perfluoroheptanoic Acid	PFHpA	
Perfluorohexane Sulfonic Acid	PFHxS	
Perfluorohexanoic Acid	PFHxA	
Perfluorononanoic Acid	PFNA	
Perfluoropentanoic Acid	PFPA	
Perfluorotetradecanoic Acid	PFTeA	
Perfluorotridecanoic Acid	PFTriA	
Perfluoroundecanoic Acid	PFUnA	
Perfluorooctanoic Acid	PFOA	
Perfluorooctanesulfonic Acid	PFOS	
Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	
Perfluoro-2-methoxypropanoic Acid	PMPA	
10:2 Fluorotelomer Sulfonic Acid	10:2 FTS	
Perfluorooctadecanoic Acid	PFODA	
Perfluoro-3,6-dioxa-4-methyl-7-octenesulfonic Acid	PS Acid	
Perfluoro-2-ethoxypropanoic acid	PEPA	
Perfluorodecanesulfonic Acid	PFDS	
Perfluoro-3-methoxypropanoic acid	PFECA-F	
1H,1H,2H,2H-perfluorodecanesulfonic Acid	8:2 FTS	
Perfluorohexanesulfonamide	FHXSA	
Pentafluoropropionic Acid	PPF Acid	PFPrA
Perfluoropropanesulfonic Acid	PFPrS	
2-Perfluorohexylethanoic Acid	6:2 FTCA	
2-Perfluorodecylethanoic Acid	10:2 FTCA	
Tetrafluoro-3-(trifluoro-1-(trifluoromethyl)-2-((trifluorovinyl)oxy)ethoxy)propionic Acid	EVE Acid	
7H-Perfluoro-4-methyl-3,6-dioxaoctanesulfonic Acid	Hydro-PS Acid	
2,2,3,3-Tetrafluoro-3-{[1,1,1,2,3,3-hexafluoro-3-(1,2,2,2-tetrafluoroethoxy)propan-2-yl]oxy}propanoic Acid	Hydro-EVE Acid	
Perfluorododecanesulfonic Acid	PFDoS	
Perfluoro-4-methoxybutanoic acid	PFECA-A	
5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	
Perfluoro-3,5-dioxahexanoic Acid	PFO2HxA	
perfluoro-3,5,7-trioxaoctanoic Acid	PFO3OA	
Perfluoro-3,5,7,9-butaoxadecanoic Acid	PFO4DA	
Perfluoro-3,5,7,9,11-pentaoxadodecanoic Acid	PFO5DA	
N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	
Perfluoro-4-(2-sulfoethoxy)pentanoic Acid	R-PSDA	
Fluoro[perfluoro-2-(perfluoro-2-sulfoethoxy)propoxy]acetic Acid	Hydrolyzed PSDA	
1,1,2,2-Tetrafluoro-2-[(1,1,1,2,3,3,4,4-octafluorobutan-2-yl)oxy]ethane-1-sulfonic Acid	R-PSDCA	
4-(2-Carboxy-1,1,2,2-tetrafluoroethoxy)-perfluoropentanoic Acid	R-EVE	
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	
Perfluoroheptanesulfonic Acid	PFHpS	
Nonafluoro-3,6-dioxaheptanoic acid	PFECA B	
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	
Perfluoropentanesulfonic Acid	PFPeS	
6:2 Fluorotelomer Sulfonic Acid	6:2 FTS	
N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	
3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	
2,2-difluoro-2-(trifluoromethoxy)acetic Acid	PFMOAA	
Perfluorohexadecanoic Acid	PFHxDA	
2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	FOUEA
2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	
Perfluorooctane Sulfonamide	PFOSA	
2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	FHUEA
1H,1H,2H,2H-perfluorohexanesulfonic Acid	4:2 FTS	
1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane-1-sulfonic Acid	NVHOS, Acid Form	
Perfluoro-4-isopropoxybutanoic Acid	PFECA-G	
3-Methoxytetrafluoropropionic acid	MTP	
2-Perfluorooctylethanoic Acid	8:2 FTCA	
Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	
Perfluorobutylsulphonamide	FBSA	
1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	
Perfluorononanesulfonic Acid	PFNS	
7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	
Sodium dodecafluoro-3H-4,8-dioxanonanote	NaDONA	
Lithium bis[(trifluoromethyl)sulfonyl]azanide	HQ-115	

* Full names for PFAS can have multiple variations. PFAS data used in this report that is not owned by Chemours was often identified using a different compound name and required translation to the variation of the full name provided here.

** Alternate abbreviations can be found in raw data not owned by Chemours. The alternate abbreviations used were translated to those shown in the second column if data were used in tables, figures, or text.

Table 2-1
First Half 2023 Groundwater Elevation Measurements
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Well ID	Aquifer Monitored	Measuring Point Elevation (ft)	Depth to Groundwater Measurement (ft)	Groundwater Elevation (NAVD88)
AA05-MW01	alluvial aquifer	633.32	59.52	573.8
AB07-MW02	alluvial aquifer	633.02	59.38	573.64
AE11-MW01	alluvial aquifer	628.94	54.77	574.17
AJ06-MW01	alluvial aquifer	635.09	61.52	573.57
AJ06-MW02	bedrock aquifer	635.55	62.03	573.52
AL10-MW01	alluvial aquifer	631.61	59.53	572.08
AM07-PW01	alluvial aquifer	634.53	-	-
AO08-MW01	alluvial aquifer	636.02	66.41	569.61
AO08-PW01	alluvial aquifer	633.11	74.69	558.42
AQ09-MW01	alluvial aquifer	632.89	61.65	571.24
AQ09-PW01	alluvial aquifer	634.46	64.6	569.86
AR09-MW01	alluvial aquifer	635.27	64.6	570.67
AT10-PW01	alluvial aquifer	634.53	62.51	572.02
AV11-PW01	alluvial aquifer	633.58	72.75	560.83
AX12-MW01	alluvial aquifer	635.23	61.61	573.62
AX13-PW01	alluvial aquifer	630.85	57.47	573.38
AZ13-PW01	alluvial aquifer	628.25	73.95	554.3
D08-MW01	alluvial aquifer	600.67	21.73	578.94
E13-MW01	alluvial aquifer	625.47	46.6	578.87
F06-MW01	alluvial aquifer	601.14	23.17	577.97
G10-MW01	alluvial aquifer	631.4	58.49	572.91
G17-MW01	alluvial aquifer	632.81	52.36	580.45
J08-MW01	alluvial aquifer	630.21	54.18	576.03
K14-MW01	alluvial aquifer	627.34	50.14	577.2
K16-PW01	alluvial aquifer	621.74 *	46.55	575.19
L06-MW01**	alluvial aquifer	629.33	53.47	575.86
M16-MW01	alluvial aquifer	627.14	50.35	576.79
N05-MW01	alluvial aquifer	633.17	57.83	575.34
N13-MW01	alluvial aquifer	625.87	49.98	575.89
P06-MW02	alluvial aquifer	630.82	56.5	574.32
P08-MW01	alluvial aquifer	629.29	54.91	574.38
R04-MW02	shallow Holocene	594.92	21.19	573.73
S05-MW02	alluvial aquifer	630.64	59.5	571.14
T13-MW01	alluvial aquifer	632.69	57.46	575.23
U04-MW01	shallow Holocene	595.43	10.11	585.32
U16-MW01	alluvial aquifer	638.23	61.8	576.43
V09-MW01	alluvial aquifer	628.5	55.18	573.32
Y05-MW01	alluvial aquifer	631.16	59.35	571.81
Y14-MW01	alluvial aquifer	642.25	67.62	574.63
Y14-MW02	bedrock aquifer	643.12	70.97	572.15
Z07-MW01	alluvial aquifer	632.98	59.52	573.46

ft = Feet
* for K16-PW01: 621.74 = top of concrete floor. 623.24 = elevation of top of concrete pump base.
** This well can only be measured if the Teflon Process Area is not in operation due to safety concerns.
- = Not measured

Table 2-2
Aquifer Hydraulic Conductivity Values
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Geologic Unit	Description	Range of K Values (ft/d)			Data Source
		Minumum	Maximum	Geometric Mean	
Holocene Alluvial Sediments	Interbedded and laminated silt, clay, and fine sand	0.03	2.8	--	4
Pleistocene Alluvial Sediments	Coarse-grained sand and gravel	35	871	146	1, 2, 3, 6, 7, 8, 9
Pliestocene Sediments Underlying Blennerhassett Island	Coarse-grained sand and gravel	124	374	235	1, 6
Re-worked Pleistocene Alluvial Sediments	Interbedded sand and gravel with silt	2.8	284	--	4
Dunkard Group - Bedrock[1]	Interbedded shale and sandstone with minor limestone and coal beds	0.02	5.6	0.2	5

Notes: These values are reproduced from Table 5 of the *Revised Groundwater Modeling Report*. Dated January 2003.
1. Results from Wood County only were used in the analysis. Hydraulic conductivity calculated from reported transmissivity and well depth.

ft/d = Feet per day
K = Hydraulic conductivity

Data Sources:

1. Burgess & Niple, Ltd. 1988. Blennerhassett Island Water Supply Well Drilling and Test Pumping, unpublished report.
2. DuPont, 1991. Washington Works Preliminary Hydrogeologic Assessment, unpublished report.
3. DuPont Corporate Remediation Group. 1999. RCRA Facility Investigation Report, DuPont Washington Works, Washington, West Virginia, unpublished report.
4. Fetter, C.W. 1988. Applied Hydrogeology, Second Edition. Macmillan Publishing Company, New York, New York, 592 p.
5. Kozar, M.D. and M.V. Mathes, 2001. Aquifer-Characteristics Data for West Virginia. Water-Resources Investigations Report 01-4036, United States Geological Survey, 74 p.
6. Leggette, Brashears & Graham, Inc. 1986. Hydrogeologic Evaluation for Additional Water Supply from Blennerhassett Island, unpublished report.
7. Little Hocking Water Association. 1996. Well Head Protection Plan, unpublished report.
8. Lubeck Public Service District. 1998. Well Head Protection Area Survey, unpublished report.
9. Shell Chemical Company, 1999, RCRA Facility Investigation Report, Shell Kraton Plant, Belpre, Ohio, unpublished report.

Table 3-1
Summary of NPDES Permitted Outfall Discharges and Treatments
2023 Updated Conceptual Site Model Report Chemours Washington Works Plant

Outfall	Type of Discharge and Discharge Sources	Water Treatment Prior to Discharge
001	• Process wastewater - Chemours (backwash from Ranney Well Granular Activated Carbon Treatment System) • Non-contact cooling water - Chemours (power generation and utility services) • Stormwater - Chemours (power generation and utility services, fluoropolymers manufacturing, local landfill), Celanese Corporation (polymer compounding) • Groundwater - Chemours (local landfill)	
002	• Process wastewater - Chemours (power generation and utility services, fluoropolymers manufacturing), Celanese Corporation (polymer compounding, nylon fibers and resins) • Non-contact cooling water -Chemours (power generation and utility services, fluoropolymers manufacturing), Celanese Corporation (polymer compounding, nylon fibers and resins), Kuraray (polyvinyl butyral). • Stormwater - Chemours (power generation and utility services, fluoropolymers manufacturing), Celanese Corporation (nylon resins) • Utilities - Chemours (power generation and utility services, fluoropolymers manufacturing), Celanese Corporation (nylon fibers and	Chemours process water is sent through PPA Abatement Process
003	• Process wastewater - Delrin USA, LLC (polyacetal resin) • Non-contact cooling water - Chemours (power generation and utility services, fluoropolymers manufacturing, labs), Celanese Corporation (nylon resins), Kuraray (polyvinyl butyral) • Stormwater - Chemours (power generation and utility services, fluoropolymers manufacturing, labs), (polymer compounding, nylon fibers and resins, polyacetal resin), • Utilities - Delrin USA, LLC (polyacetal resin), Kuraray (polyvinyl butyral)	
005 - Outfall from on-site wastewater treatment system	• Process wastewater – Chemours (fluoropolymers manufacturing, labs), Celanese Corporation (specialty polymer compounding), Delrin USA, LLC (polyacetal resin), Kuraray (polyvinyl butyral) • Non-contact cooling water – Chemours (power generation and utility services, fluoropolymers manufacturing), Celanese Corporation (specialty polymer compounding, polyacetal resin) • Stormwater – Delrin USA, LLC (polyacetal resin), Chemours (power generation and utility services, fluoropolymers manufacturing, labs) • Utilities – Chemours (fluoropolymers manufacturing), Delrin USA, LLC (polyacetal resin)	Biological Treatment at the Wastewater Treatment Plant
006	• Non-contact cooling water – Celanese Corporation (specialty polymer compounding) • Stormwater - Celanese Corporation (specialty polymer compounding), Delrin USA, LLC (polyacetal resin) • Utilities - Celanese Corporation (specialty polymer compounding)	
007	• Non-contact cooling water – Chemours (fluoropolymers manufacturing) • Stormwater - Chemours (fluoropolymers manufacturing)	

Table 3-2
Summary NPDES Permitted Process and Stormwater Outfall PFAS Monitoring Requirements
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall	PFOA Final Limits (µg/L) (effective 9/1/2021)	HFPO-DA Final Limits (µg/L) (effective 9/1/2021)	Monitoring Frequency
001	Monthly Avg.: 2 Max. Daily: 7.3	Monthly Avg.: 1.4 Max. Daily: 2	1/month
002	Monthly Avg.: 2 Max. Daily: 3.3	Monthly Avg.: 1.4 Max. Daily: 2.3	1/week
003	Monthly Avg.: 2 Max. Daily: 2.8	Report Only	1/month
005 (Includes outfall from on-site wastewater treatment system)	Monthly Avg.: 0.3 Max. Daily: 0.7	Monthly Avg.: 1.1 Max. Daily: 2.3	1/week
006	Report Only	Monthly Avg.: 0.14 Max. Daily: 0.204	1/month
007	Report Only	Report Only	1/month
011	Report Only	Report Only	1/quarter
016	Report Only	Report Only	1/quarter
019	Report Only	Report Only	1/quarter
022	Report Only	Report Only	1/quarter
023	Report Only	Report Only	1/quarter
025	Report Only	Report Only	1/quarter
026	Report Only	Report Only	1/quarter
030	Report Only	Report Only	1/quarter
031	Report Only	Report Only	1/quarter

Table 3-2
Summary NPDES Permitted Process and Stormwater Outfall PFAS Monitoring Requirements
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall	PFOA Final Limits (µg/L) (effective 9/1/2021)	HFPO-DA Final Limits (µg/L) (effective 9/1/2021)	Monitoring Frequency
032	Report Only	Report Only	1/quarter
033	Report Only	Report Only	1/quarter
034	Report Only	Report Only	1/quarter
036	Report Only	Report Only	1/quarter
River Intake	Report Only	Report Only	1/quarter

40 PFAS compounds monitored are:

11Cl-PF3OUdS
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol
3:3 Fluorotelomer Carboxylic Acid
5:3 Fluorotelomer Carboxylic Acid
6:2 Fluorotelomer sulfonate
7:3 Fluorotelomer Carboxylic Acid
9Cl-PF3ONS
DONA
Hfpo Dimer Acid
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid
N-ethylperfluoro-1-octanesulfonamide
N-methyl perfluoro-1-octanesulfonamide
N-Methyl Perfluorooctane Sulfonamidoacetic Acid
Perfluoro(2-ethoxyethane)sulfonic Acid
Perfluorobutane Sulfonic Acid
Perfluorobutanoic Acid
Perfluorodecane Sulfonic Acid
Perfluorodecanoic Acid
Perfluorododecane Sulfonic Acid (PFDoS)
Perfluorododecanoic Acid
Perfluoroheptane Sulfonic Acid (PFHpS)
Perfluoroheptanoic Acid
Perfluorohexane Sulfonic Acid
Perfluorohexanoic Acid
Perfluorononanesulfonic Acid
Perfluorononanoic Acid
Perfluorooctane Sulfonamide
Perfluoropentane Sulfonic Acid (PFPeS)
Perfluoropentanoic Acid
Perfluorotetradecanoic Acid
Perfluorotridecanoic Acid
Perfluoroundecanoic Acid
PFECA B
PFECA-A
PFECA-F
PFOA
PFOS

** Quarterly sampling shall be done no less frequently than quarterly
and semi-annual sampling ampling shall be done
no less frequently than semi-annually.
µg/L = Micrograms per liter

Table 3-3
Fluoropolymer Manufacturing Processes
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Fluoropolymer Processes	Product Type	Applications	PFOA Emission Sources	Emission Controls as of 2006
Fine Powder Process	powder	membranes for apparel, wire and cable, filled products	air emissions	Bagfilters, scrubbers and recycling recovered PFOA
			liquid and solid wastes	Mechanical filter to remove solids and carbon treatment for filtered liquid. Incineration of filter media and misc. solid processing wastes.
Polytetrafluoroethylene (PTFE) Dispersion Process	liquid	coating applications	liquid and solid wastes	Mechanical filter to remove solids and carbon treatment for filtered liquid. Incineration of filter media and misc. solid processing wastes.
Fluoroethylene Propylene (FEP) Process	cube or flake	extrudable resins used to coat wire and cable	air emissions	Bagfilters, scrubbers and recycling recovered PFOA
			liquid and solid wastes	Mechanical filter to remove solids and carbon treatment for filtered liquid. Inicineration of filter media and misc. solid processing wastes.
FEP Dispersion Process	liquid	coating applications	liquid and solid wastes	Mechanical filter to remove solids and carbon treatment for filtered liquid. Incineration of filter media and misc. solid processing wastes.
Granular Process	granular	molded products and skived sheets	air emissions	Bagfilters, scrubbers and recycling recovered PFOA
			liquid and solid wastes	Mechanical filter to remove solids and carbon treatment for filtered liquid. Incineration of filter media and misc. solid processing wastes.
PFA Process K	solid	wire, cable and semiconductor applications	air emissions	Bagfilters, scrubbers and recycling recovered PFOA
			liquid and solid wastes	Mechanical filter to remove solids and carbon treatment for filtered liquid. Incineration of filter media and misc. solid processing wastes.
PFA Dispersion Process	liquid	coating applications	liquid and solid wastes	Mechanical filter to remove solids and carbon treatment for filtered liquid. Incineration of filter media and misc. solid processing wastes.

Table 3.4
Ranney Well GAC Treatment System and PFA Line 2 Polish GAC Treatment System Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Date	Ranney Well GAC Filter Results										Polish GAC Filter Results*				Comments
	Ranney Raw HFPO-DA (ppt)	Ranney Raw PFOA (ppt)	East Lead HFPO DA (ppt)	East Lag HFPO-DA (ppt)	West Lead HFPO-DA (ppt)	West Lag HFPO-DA (ppt)	East Lead PFOA (ppt)	East Lag PFOA (ppt)	West Lead PFOA (ppt)	West Lag PFOA (ppt)	Polish Lead HFPO-DA (ppt)	Polish Lag HFPO-DA (ppt)	Polish Lead PFOA (ppt)	Polish Lag PFOA (ppt)	
11/19/2024	20200	19000	4900	<50	8100	100	50	<20	300	<20	200	<50	<20	<20	
11/12/2024	21200	19200	4500	<50	6400	<50	<20	<20	200	<20	<50	<50	<20	<20	
11/5/2024	18900	19000	3400	<50	6100	<50	60	<20	200	<20	1500	<50	<20	<20	
10/29/2024	20,700	23100	2300	<50	4900	<50	70	<20	200	<20	<50	<50	<20	<20	
10/22/2024	13800	14600	2900	<50	5200	<50	40	<20	150	<20	<50	<50	<20	<20	
10/15/2024	18300	18000	2400	<50	5200	<50	100	30	200	30	300	<50	20	20	
10/8/2024	16200	19200	1900	<50	4200	<50	50	<20	100	<20	<50	<50	<20	<20	
10/1/2024	14000	17200	1600	<50	3900	<50	80	<20	170	70	<50	<50	<20	<20	
9/24/2024	19400	18000	1700	<50	4100	100	70	<20	100	<20	100	<50	<20	<20	
9/17/2024	13000	15100	1200	<50	2900	200	700	<20	<20	<20	<50	<50	<20	<20	
9/10/2024	15900	15900	1900	100	3300	100	100	<20	200	<20					
9/3/2024	12700	18400	<50	<50	600	<50	<20	<20	<20	<20	<50	<50	<20	<20	
8/27/2024	15400	15600	<50	<50	800	<50	<20	<20	50	50					
8/20/2024	17400	20100	<50	<50	900	<50	<20	<20	<20	<20					
8/13/2024	17700	14800	<50	<50	600	<50	<20	<20	<20	<20					
8/6/2024	15000	16800	<50	<50	100	<50	<20	<20	<20	<20					
7/30/2024	18200	16700	60	<50	300	70	<20	<20	<20	<20					
7/24/2024	14700	16700	no sample	no sample	80	<50	no sample	no sample	<20	<20					7/24/2024 - Replaced east lead, became lag
7/16/2024	15600	17900	8900	<50	<50	<50	500	<20	<20	<20					
7/9/2024	16600	20000	7500	<50	<50	<50	430	40	30	20					
7/2/2024	16000	20100	5900	<50	no sample	no sample	500	<20	no sample	no sample					7/2/2024 - Replaced west lead, became lag
6/24/2024	19600	22500	5100	<50	5400	70	600	<20	300	<20					
6/18/2024	22900	23000	2200	<50	1100	400	<20	<20	50	50					
6/11/2024	24300	21200	2400	<50	900	100	<20	<20	<20	<20					
6/4/2024	21600	19700	1900	700	400	700	<20	80	40	200					
5/28/2024	24600	24200	900	200	<50	200	200	700	300	700					
5/21/2024	18800	23800	500	200	<50	<50	<20	<20	20	60					
5/14/2024	15600	18900	600	<50	<50	<50	<20	<20	<20	<20					
5/7/2024	19300	25700	400	<50	<50	<50	<20	<20	<20	<20					
4/30/2024	13800	23000	100	<50	<50	<50	<20	<20	<20	<20					
4/23/2024	12500	18100	500	<50	300	<50	<20	<20	400	<20					
4/16/2024	14300	22300	<50	<50	<50	<50	<20	<20	<20	<20					
4/2/2024	13700	21000	100	<50	<50	<50	<20	<20	50	80					
3/26/2024	12400	21300	<50	<50	<50	<50	<20	<20	<20	<20					
3/19/2024	13800	21600	<50	<50	<50	<50	<20	<20	40	30					
3/12/2024	13500	21400	<50	<50	<50	<50	<20	<20	500	50					
3/5/2024	14100	21600	700	<50	200	200	70	<20	50	40					
2/20/2024	12700	20400	<50	<50	<50	<50	<20	<20	<20	<20					2/27/2024 - Ranney well down
2/13/2024	13800	22500	7400	<50	<50	2100	<20	<20	<20	<20					2/15/2024 - Replaced east lead
2/6/2024	13100	18900	6900	<50	11000	<50	<20	<20	<20	<20					2/8/2024 - Replaced west lead
1/30/2024	10900	17600	7300	100	12000	300	<20	<20	100	200					
1/23/2024	13600	18400	9700	100	14700	80	<20	<20	30	20					
1/16/2024	13600	21600	5800	<50	8800	100	30	<20	30	60					
1/2/2024	17900	22000	4100	<50	5510	<50	<20	<20	20	20					
12/26/2023	19000	20400	3000	50	5000	100	60	<20	<20	<20					
12/11/2023	25000	24000	2400	<50	4700	140	70	<20	<20	50					
12/5/2023	22600	26600	1400	<50	4100	<50	<20	<20	30	20					
11/28/2023	24200	28000	1000	<50	2700	<50	<20	<20	<20	<20					
10/31/2023	18900	25300	100	60	800	100	30	30	30	30					
10/24/2023	18100	24300	700	<50	1300	<50	<20	<20	90	20					
10/10/2023	16200	25200	16400	<50	300	<50	700	<20	<20	<20					10/17/2023 - Replaced east lead, lag became lead
10/3/2023	17600	24200	18500	<50	400	<50	480	<20	230	<20					
9/26/2023	19600	20600	17300	<50	300	<50	200	<20	<20	<20					
9/19/2023	19200	21100	18300	<50	300	<50	100	<20	<20	<20					
9/12/2023	20400	23000	17600	<50	300	100	300	<20	30	20					
9/5/2023	no sample	no sample	10900	<50	<50	<50	260	<20	<20	40					

Table 3.4
Ranney Well GAC Treatment System and PFA Line 2 Polish GAC Treatment System Results
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Chemours Washington Works Plant

Date	Ranney Well GAC Filter Results										Polish GAC Filter Results*				Comments
	Ranney Raw HFPO-DA (ppt)	Ranney Raw PFOA (ppt)	East Lead HFPO DA (ppt)	East Lag HFPO-DA (ppt)	West Lead HFPO-DA (ppt)	West Lag HFPO-DA (ppt)	East Lead PFOA (ppt)	East Lag PFOA (ppt)	West Lead PFOA (ppt)	West Lag PFOA (ppt)	Polish Lead HFPO-DA (ppt)	Polish Lag HFPO-DA (ppt)	Polish Lead PFOA (ppt)	Polish Lag PFOA (ppt)	
8/29/2023	15700	26200	8400	<50	80	<50	400	<20	20	<20					
8/15/2023	16900	2500 ?	7500	<50	100	<50	200	<20	<20	<20					
8/7/2023	15800	24600	4400	<50	<50	<50	300	<20	<20	<20					
7/31/2023	11700	21000	3700	<50	<50	<50	300	<20	<20	<20					
7/25/2023	17300	23600	5900	<50	200	50	400	<20	<20	<20					
7/18/2023	14400	21600	3900	<50	60	80	400	<20	20	30					
7/11/2023	19100	22700	4900	50	200	400	400	<20	<20	60					
7/4/2023	20300	23500	5000	100	300	300	530	<20	<20	<20					
6/27/2023	16300	23700	3900	<50	<50	<50	700	<20	<20	30					
6/20/2023	15800	24300	330	<50	60	<50	<20	<20	50	<20					6/20/2023 - west lead replaced, lag became lead.
6/1/2023	14000	18,430	<100	<100	7600	<100	<20	<20	210	<20					
5/30/2023	17300	22700	1100	4200	9400	1200	<20	90	290	70					
5/23/2023	16300	23500	<50	<50	10,000	<50	<20	<20	300	<20					
5/16/2023	17500	23560	<50	<50	9300	<50	<20	400	280	<20					
5/9/2023	18900	20400	<50	200	7000	<50	<20	<20	200	<20					
5/1/2023	22600	20100	<50	200	7400	<50	30	30	100	30					
4/25/2023	16900	19900	<50	<50	5700	<50	<20	<20	200	<20					
4/18/2023	20900	21300	<50	200	6700	500	<20	<20	200	40					
4/11/2023	14900	20500	<50	<50	3600	<50	<20	<20	100	<20					
4/9/2023	16000	23980	<50	<50	<50	<50	<20	<20	<20	<20					
3/28/2023	20300	24500	70	50	5200	<50	<20	<20	100	<20					
3/22/2023	17400	22200	<50	<50	4900	<50	<20	<20	200	<20					
3/14/2023	15900	21000	<50	<50	4400	<50	<20	<20	300	100					
3/7/2023	19300	23700	<50	<50	4200	<50	<20	<20	200	<20					
2/27/2023	19700	23900	<50	<50	2900	<50	<20	<20	200	<20					
1/31/2023	13300	18900	<50	<50	2100	<50	<20	<20	200	<20					
1/24/2023	12400	20900	<50	<50	1900	<50	<20	<20	200	<20					
1/10/2023	11900	22500			1400	<50			300	<20					1/10/2023 - Replaced east lead bed
1/3/2023	11800	20700	8800	200	1700	100	1400	<20	300	<20					
12/20/2022	14900	22100	9500	<50	1500	<50	1400	<20	200	<20					
12/13/2022	14700	22700	9400	<50	1400	<50	1600	<20	300	<20					
12/6/2022	15200	21800	7600	100	1200	60	1600	<20	300	<20					
11/29/2022	12600	29900	4400	<50	<50	<50	500	<20	<20	<20					
11/15/2022	13400	20900	5900	<50	<50	<50	400	<20	<20	<20					
10/28/2022	14700	20500	6700	<100	100	100	400	<20	<20	<20					
10/24/2022	15900	24700	6000	<50	<50	<50	400	<20	<20	<20					
10/17/2022	15400	21200	6300	<50	<50	<50	500	<20	<20	<20					
10/4/2022	11900	24000	3700	<50	<50	<50	300	<20	<20	<20					
9/27/2022	13400	26600	3300	<50	<50	<50	200	<20	<20	<20					
9/19/2022	12600	23700	3900	<50	<50	<50	300	<20	<20	<20					
9/13/2022	16200	24200	3400	<50	<50	<50	200	<20	<20	<20					
9/7/2022	14700	24900	2600	<50	<50	<50	200	<20	<20	<20					
8/30/2022	14600	22900	2600	<50	<50	<50	200	<20	<20	<20					
8/23/2022	15300	25000	3000	<50	1000	<50	200	<20	<20	<20					
8/17/2022	14700	26400	2000	<50	<50	<50	100	<20	<20	<20					
8/9/2022	14100	26000	1800	<50	<50	<50	200	<20	<20	<20					
8/2/2022	15600	24600	1800	<50	<50	<50	100	<20	<20	<20					
7/27/2022	13300	24000	1600	<50	2800	<50	100	<20	300	<20					7/28/2022 - West lead carbon replaced. West lag became west Lead
7/20/2022	11100	24500	1300	<50	2600	<50	100	<20	300	<20					
7/13/2022	12900	27700	1000	<50	1600	<50	100	<20	200	<20					
7/6/2022	11900	30400	1300	<50	2500	<50	200	<20	300	<20					
6/29/2022				<50		<50		<20		<20					6/29/2022 - lag beds only sampled
6/22/2022	10100	25100	1100	100	1800	70	100	<20	300	<20					
6/15/2022	11100	26800	900	<50	1400	<50	100	<20	200	<20					
6/9/2022	11500	26700	600	<50	1000	<50	100	<20	200	<20					

Table 3.4
Ranney Well GAC Treatment System and PFA Line 2 Polish GAC Treatment System Results
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Chemours Washington Works Plant

Date	Ranney Well GAC Filter Results										Polish GAC Filter Results*				Comments
	Ranney Raw HFPO-DA (ppt)	Ranney Raw PFOA (ppt)	East Lead HFPO DA (ppt)	East Lag HFPO-DA (ppt)	West Lead HFPO-DA (ppt)	West Lag HFPO-DA (ppt)	East Lead PFOA (ppt)	East Lag PFOA (ppt)	West Lead PFOA (ppt)	West Lag PFOA (ppt)	Polish Lead HFPO-DA (ppt)	Polish Lag HFPO-DA (ppt)	Polish Lead PFOA (ppt)	Polish Lag PFOA (ppt)	
5/31/2022	12000	24200	1000	400	1600	<50	100	20	200	<20					
5/24/2022	9200	21200	900	<50	1200	<50	200	<20	300	<20					
5/18/2022	8000	23600	700	<50	200	<50	100	<20	200	<20					
5/10/2022	8500	26000	700	<50	200	<50	100	<20	300	<20					
5/4/2022	8600	25400	400	<50	900	<50	200	<20	300	<20					
4/28/2022	9400	23000	700	<50	1000	<50	200	<20	300	<20					
4/26/2022	9100	26800	1000	200	800	100	400	1500	1800	600					4/26/2022 - questionable samples
4/11/2022	9000	25000	700	<100	1000	<100	200	<20	400	<20					4/11/2022 - East Lag samples corrected for baseline drift of Internal Standard blank above the lowest calibration.
3/29/2022	8700	22300	200	<50	400	<50	200	<20	300	<20					
3/15/2022	8000	25300	<50	<50	200	<50	<20	<20	<20	<20					
2/28/2022	8300	28100	<50	<50	<50	<50	<20	<20	<20	<20					
2/16/2022	9700	27000	<50	<50	<50	<50	<20	<20	<20	<20					
2/8/2022	11800	28900	<50	<50	<50	160	200	300	700	300					
2/2/2022	11400	28000	<50	<50	<50	80	100	100	500	100					
1/24/2022	12300	30000	150	<50	60	<50	1700	100	100	200					
12/21/2021	14700	29300	<50	<50	<50	<50	<20	<20	<20	<20					

Notes:
All data in this table were generated by the Chemours Washington Works on-site analytical laboratory.
Raw - influent water from the Ranney Well
Lead - effluent from the first carbon bed
Lag - effluent from the second carbon bed
*Polish GAC filter results are for a portion of Ranney Well GAC treated water (Lag) directed through a polishing GAC filter for use in PFA Line2 manufacturing.
ppt = parts per trillion
< - results are reported as less than the reporting limit shown

Table 5-1
1991 and 1998 Verification Investigation and RCRA Facility Investigation Soil PFOA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

SWMU #	SRCNAME	DATESMPL	SAMPLE_NUMBER	TOP	BOTTOM	DepthUnit	PFOA (ug/kg)	PFOA (mg/kg)
ADPs	--	15-Nov-91	ADPS1	10	12	Feet	35400	35.4
ADPs	--	15-Nov-91	ADPS1	18	20	Feet	14900	14.9
ADPs	--	15-Nov-91	ADPS1	35	37	Feet	2550	2.55
ADPs	--	15-Nov-91	ADPS2	10	12	Feet	97000	97
ADPs	--	15-Nov-91	ADPS2	18	20	Feet	5660	5.66
ADPs	--	15-Nov-91	ADPS2	35	38	Feet	1130	1.13
ADPs	--	16-Nov-91	ADPS3	10	12	Feet	17900	17.9
ADPs	--	16-Nov-91	ADPS3	18	20	Feet	7140	7.14
ADPs	--	16-Nov-91	ADPS3	35	40	Feet	1710	1.71
ADPs	--	16-Nov-91	ADPS3	35	40	Feet	1550	1.55
RBL	--	14-Nov-91	RBLS1	0	2	Feet	<400	<0.4
RBL	--	14-Nov-91	RBLS1	2	4	Feet	<400	<0.4
RBL	--	20-Nov-91	RBLS2	0	2	Feet	<400	<0.4
RBL	--	20-Nov-91	RBLS2	2	4	Feet	<400	<0.4
RBL	--	20-Nov-91	RBLS2	0	2	Feet	<400	<0.4
RBL	--	19-Nov-91	RBLS3	0	2	Feet	360	0.36
RBL	--	20-Nov-91	RBLS3	2	4	Feet	<400	<0.4
RBL	--	14-Nov-91	RBLS4	0	2	Feet	<400	<0.4
RBL	--	14-Nov-91	RBLS4	35	39	Feet	<400	<0.4
RBL	--	14-Nov-91	RBLS4	5	9	Feet	<400	<0.4
RBL	--	19-Nov-91	RBLS5	35	40	Feet	930	0.93
RBL	--	19-Nov-91	RBLS5	35	40	Feet	<400	<0.4
RBL	--	13-Nov-91	RBLS6	0.5	2.5	Feet	<400	<0.4
RBL	--	13-Nov-91	RBLS6	35	39	Feet	<400	<0.4
RBL	--	13-Nov-91	RBLS7	0	2	Feet	<400	<0.4
RBL	--	13-Nov-91	RBLS7	2	4	Feet	<400	<0.4
RBL	--	18-Nov-91	RBLS8	2	4	Feet	940	0.94
RBL	--	18-Nov-91	RBLS8	3	5	Feet	<400	<0.4
RBL	--	18-Nov-91	RBLS8	35	39	Feet	1060	1.06
RBL	--	16-Nov-91	RBLS9	0	2	Feet	<400	<0.4
RBL	--	16-Nov-91	RBLS9	2	4	Feet	<400	<0.4
RBL	--	12-Nov-91	RBLS10	0	2	Feet	<400	<0.4
RBL	--	12-Nov-91	RBLS10	2	4	Feet	<400	<0.4
RBL	--	13-Nov-91	RBLS11	0	2	Feet	<400	<0.4
RBL	--	13-Nov-91	RBLS11	0	2	Feet	<400	<0.4
RBL	--	13-Nov-91	RBLS11	35	39	Feet	<400	<0.4
RBL	--	17-Nov-91	RBLS12	0	2	Feet	<400	<0.4
RBL	--	17-Nov-91	RBLS12	35	39	Feet	<400	<0.4 [U]
RBL	AA04-SB01	20-Aug-98	AA04SB010_2	0	2	Feet	<12 [U]	<0.012 [U]
RBL	AA04-SB01	20-Aug-98	AA04SB016_8	6	8	Feet	31	0.031
RBL	AA04-SB01	20-Aug-98	AA04SB0114_16	14	16	Feet	<24 [UI]	<0.024 [UI]
RBL	AA04-SB01	20-Aug-98	AA04SB0130-32	30	32	Feet	<12 [U]	<0.012 [U]
BG	AA05-SB01	23-Sep-98	AA05SB010_2	0	2	Feet	<27	<0.027
BG	AA05-SB01	23-Sep-98	AA05SB014_6	4	6	Feet	20	0.02
BG	AA05-SB01	23-Sep-98	AA05SB018_10	8	10	Feet	37	0.037
BG	AA05-SB01	23-Sep-98	AA05SB0116_18	16	18	Feet	<21	<0.021
BG	AA05-SB01	23-Sep-98	AA05SB0120_22	20	22	Feet	20	0.02
BG	AA05-SB01	23-Sep-98	AA05SB01	40	42	Feet	<22	<0.022
BG	AA05-SB01	23-Sep-98	AA05SB0140_42	40	42	Feet	<21	<0.021
BG	AA05-SB01	23-Sep-98	AA05SB0160_62	60	62	Feet	<24	<0.024
BG	AA06-SB01	02-Sep-98	AA06SB010_2	0	2	Feet	<24 [UI]	<0.024 [UI]
BG	AA06-SB01	02-Sep-98	AA06SB016_8	6	8	Feet	130	0.13
BG	AA06-SB01	02-Sep-98	AA06SB0114_16	14	16	Feet	49	0.049
BG	AA06-SB01	02-Sep-98	AA06SB0120_22	20	22	Feet	<11 [U]	<0.011 [U]
BG	AA06-SB01	02-Sep-98	AA06SB0140_42	40	42	Feet	<11 [U]	<0.011 [U]
BG	AA06-SB01	02-Sep-98	AA06SB0164_66	64	66	Feet	<11 [U]	<0.011 [U]
BG	AA07-SB01	16-Sep-98	AA07SB010_2	0	2	Feet	<25 [UI]	<0.025 [UI]
BG	AA07-SB02	27-Sep-98	AA07SB020_2	0	2	Feet	79	0.079
BG	AA07-SB02	27-Sep-98	AA07SB024_6	4	6	Feet	87	0.087
BG	AA08-SB01*	27-Sep-98	AA08SB010_2	0	2	Feet	31	0.031
BG	AA08-SB01*	27-Sep-98	AA08SB014_6	4	6	Feet	<12 [U]	<0.012 [U]
BG	AA08-SB02*	27-Sep-98	AA08SB020_2	0	2	Feet	<12 [U]	<0.012 [U]
BG	AB06-SB01	01-Sep-98	AB06SB014_6	4	6	Feet	<24 [UI]	<0.024 [UI]

Table 5-1
1991 and 1998 Verification Investigation and RCRA Facility Investigation Soil PFOA Results
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SWMU #	SRCNAME	DATESMPL	SAMPLE_NUMBER	TOP	BOTTOM	DepthUnit	PFOA (ug/kg)	PFOA (mg/kg)
BG	AB06-SB01	01-Sep-98	AB06SB0110_12	10	12	Feet	<22 [UI]	<0.022 [UI]
BG	AB06-SB01	01-Sep-98	AB06SB0118_20	18	20	Feet	<21 [UI]	<0.021 [UI]
BG	AB06-SB01	01-Sep-98	AB06SB0140_42	40	42	Feet	<12 [U]	<0.012 [U]
BG	AB06-SB01	01-Sep-98	AB06SB0158_60	58	60	Feet	33	0.033
BG	AB06-SB02	08-Sep-98	AB06SB022_4	2	4	Feet	<12 [U]	<0.012 [U]
BG	AB06-SB02	08-Sep-98	AB06SB0210_12	10	12	Feet	16	0.016
BG	AB06-SB02	08-Sep-98	AB06SB0218_20	18	20	Feet	<11 [U]	<0.011 [U]
BG	AB06-SB02	08-Sep-98	AB06SB0240_42	40	42	Feet	<10 [U]	<0.01 [U]
BG	AB06-SB02	08-Sep-98	AB06SB0262_64	62	64	Feet	<12 [U]	<0.012 [U]
BG	AB07-SB02	04-Sep-98	AB07SB020_2	0	2	Feet	<12 [U]	<0.012 [U]
BG	AB07-SB02	04-Sep-98	AB07SB024_6	4	6	Feet	<12 [U]	<0.012 [U]
BG	AB07-SB02	04-Sep-98	AB07SB0210_12	10	12	Feet	35	0.035
BG	AB07-SB02	04-Sep-98	AB07SB0214_16	14	16	Feet	57	0.057
BG	AB07-SB02	04-Sep-98	AB07SB0220_22	20	22	Feet	<11 [U]	<0.011 [U]
BG	AB07-SB02	04-Sep-98	AB07SB0240_42	40	42	Feet	<21 [UI]	<0.021 [UI]
BG	AB08-SB02	27-Sep-98	AB08SB020_2	0	2	Feet	<37 [UI]	<0.037 [UI]
BG	AB08-SB02	27-Sep-98	AB08SB024_6	4	6	Feet	<12 [U]	<0.012 [U]
RBL	AC04-SB01	21-Aug-98	AC04SB010_2	0	2	Feet	11	0.011
RBL	AC04-SB01	21-Aug-98	AC04SB0110_12	10	12	Feet	17	0.017
RBL	AC04-SB01	21-Aug-98	AC04SB0120_22	20	22	Feet	<13 [UI]	<0.013 [UI]
RBL	AC04-SB01	21-Aug-98	AC04SB0128_30	28	30	Feet	<12 [U]	<0.012 [U]
BG	AC06-SB03	31-Aug-98	AC06SB030_2	0	2	Feet	<10 [U]	<0.01 [U]
BG	AC06-SB03	31-Aug-98	AC06SB036_8	6	8	Feet	53	0.053
BG	AC06-SB03	31-Aug-98	AC06SB0312_14	12	14	Feet	12	0.012
BG	AC06-SB03	31-Aug-98	AC06SB0334_36	34	36	Feet	<11 [U]	<0.011 [U]
BG	AC06-SB03	31-Aug-98	AC06SB03	48	50	Feet	<11 [U]	<0.011 [U]
BG	AC06-SB03	31-Aug-98	AC06SB0348_50	48	50	Feet	15	0.015
BG	AC06-SB03	31-Aug-98	AC06SB0362_64	62	64	Feet	<11 [U]	<0.011 [U]
BG	AC06-SB04*	01-Sep-98	AC06SB040_2	0	2	Feet	14	0.014
BG	AC06-SB04*	01-Sep-98	AC06SB046_8	6	8	Feet	61	0.061
BG	AC06-SB04*	01-Sep-98	AC06SB0414_16	14	16	Feet	<22 [UI]	<0.022 [UI]
BG	AC06-SB04*	01-Sep-98	AC06SB0434_36	34	36	Feet	<21 [UI]	<0.021 [UI]
BG	AC06-SB04*	01-Sep-98	AC06SB0454_56	54	56	Feet	<10 [U]	<0.01 [U]
BG	AC06-SB04*	01-Sep-98	AC06SB0462_64	62	64	Feet	<12 [U]	<0.012 [U]
BG	AC06-SB05	09-Sep-98	AC06SB050_2	0	2	Feet	<11 [U]	<0.011 [U]
BG	AC06-SB05	09-Sep-98	AC06SB056_8	6	8	Feet	<12 [U]	<0.012 [U]
BG	AC06-SB05	09-Sep-98	AC06SB0512_14	12	14	Feet	<11 [U]	<0.011 [U]
BG	AC06-SB05	09-Sep-98	AC07SB02	12	14	Feet	<11 [U]	<0.011 [U]
BG	AC06-SB05	09-Sep-98	AC06SB0518_20	18	20	Feet	<11 [U]	<0.011 [U]
BG	AC06-SB05	09-Sep-98	AC06SB0540_42	40	42	Feet	<10 [U]	<0.01 [U]
BG	AC06-SB05	09-Sep-98	AC06SB0562_64	62	64	Feet	<12 [U]	<0.012 [U]
BG	AC07-SB02	09-Sep-98	AC07SB020_2	0	2	Feet	37	0.037
BG	AC07-SB02	09-Sep-98	AC07SB0218_20	18	20	Feet	<12 [U]	<0.012 [U]
BG	AC07-SB02	10-Sep-98	AC07SB0262_64	62	64	Feet	<10 [U]	<0.01 [U]
BG	AC07-SB03*	14-Sep-98	AC07SB030_2	0	2	Feet	61	0.061
BG	AC07-SB03*	14-Sep-98	AC07SB034_6	4	6	Feet	<12 [U]	<0.012 [U]
BG	AC07-SB03*	14-Sep-98	AC07SB038_10	8	10	Feet	<23 [UI]	<0.023 [UI]
BG	AC07-SB03*	14-Sep-98	AC07SB0314_16	14	16	Feet	17	0.017
BG	AC07-SB03*	14-Sep-98	AC07SB0320_22	20	22	Feet	<11 [U]	<0.011 [U]
BG	AC07-SB03*	15-Sep-98	AC07SB0340_42	40	42	Feet	<10 [U]	<0.01 [U]
BG	AC07-SB03*	15-Sep-98	AC07SB03	64	66	Feet	<12 [U]	<0.012 [U]
BG	AC07-SB03*	15-Sep-98	AC07SB0364_66	64	66	Feet	<13 [U]	<0.013 [U]
BG	AC07-SB04	14-Sep-98	AC07SB040_2	0	2	Feet	28	0.028
BG	AC07-SB04	14-Sep-98	AC07SB044_6	4	6	Feet	<13 [U]	<0.013 [U]
BG	AC07-SB04	14-Sep-98	AC07SB0410_12	10	12	Feet	12	0.012
BG	AC07-SB04	14-Sep-98	AC07SB0414_16	14	16	Feet	<12 [U]	<0.012 [U]
BG	AC07-SB04	14-Sep-98	AC07SB0420_22	20	22	Feet	<12 [U]	<0.012 [U]
BG	AC07-SB04	14-Sep-98	AC07SB0440_42	40	42	Feet	<10 [U]	<0.01 [U]
BG	AC07-SB04	14-Sep-98	AC07SB0460_62	60	62	Feet	<11 [U]	<0.011 [U]
BG	AC08-SB01	27-Sep-98	AC08SB010_2	0	2	Feet	<21 [UI]	<0.021 [UI]
BG	AC08-SB01	27-Sep-98	AC08SB014_6	4	6	Feet	<35 [UI]	<0.035 [UI]
BG	AC08-SB01	27-Sep-98	AC08SB018_10	8	10	Feet	<25 [UI]	<0.025 [UI]
BG	AC08-SB01	27-Sep-98	AC08SB0114_16	14	16	Feet	<11 [U]	<0.011 [U]

Table 5-1
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SWMU #	SRCNAME	DATESMPL	SAMPLE_NUMBER	TOP	BOTTOM	DepthUnit	PFOA (ug/kg)	PFOA (mg/kg)
BG	AC08-SB01	27-Sep-98	AC08SB0120_22	20	22	Feet	<23 [UI]	<0.023 [UI]
BG	AC08-SB01	27-Sep-98	AC08SB0140_42	40	42	Feet	<10 [U]	<0.01 [U]
BG	AC08-SB01	27-Sep-98	AC08SB0158_60	58	60	Feet	<25 [UI]	<0.025 [UI]
BG	AC08-SB02	24-Aug-98	AC08SB020_2	0	2	Feet	51	0.051
BG	AC08-SB02	24-Aug-98	AC08SB0210_12	10	12	Feet	<12 [U]	<0.012 [U]
BG	AC08-SB02	24-Aug-98	AC08SB0220_22	20	22	Feet	<10 [U]	<0.01 [U]
BG	AC08-SB02	24-Aug-98	AC08SB0230_32	30	32	Feet	<10 [U]	<0.01 [U]
BG	AC08-SB02	24-Aug-98	AC08SB0240_42	40	42	Feet	<11 [U]	<0.011 [U]
BG	AC08-SB02	24-Aug-98	AC08SB0250_52	50	52	Feet	<11 [U]	<0.011 [U]
BG	AC08-SB02	24-Aug-98	AC08SB0256_58	56	58	Feet	<11 [U]	<0.011 [U]
RBL	AE05-SB02	22-Aug-98	AE05SB020_2	0	2	Feet	21	0.021
RBL	AE05-SB02	22-Aug-98	AE05SB0210_12	10	12	Feet	<13 [U]	<0.013 [U]
RBL	AE05-SB02	22-Aug-98	AE05SB0222_24	22	24	Feet	<11 [U]	<0.011 [U]
RBL	AE05-SB02	22-Aug-98	AE05SB0234_36	34	36	Feet	<10 [U]	<0.01 [U]
RBL	AE05-SB02	22-Aug-98	AE05SB0248_50	48	50	Feet	<10 [U]	<0.01 [U]
RBL	AE05-SB02	22-Aug-98	AE05SB0258_60	58	60	Feet	<12 [U]	<0.012 [U]
--	AE11-SB01	06-Oct-98	AE11SB010_2	0	2	Feet	23	0.023
RBL	AF05-SB01	22-Aug-98	AF05SB010_2	0	2	Feet	<22 [UI]	<0.022 [UI]
RBL	AF05-SB01	22-Aug-98	AF05SB0110_12	10	12	Feet	<13 [U]	<0.013 [U]
RBL	AF05-SB01	22-Aug-98	AF05SB0120_22	20	22	Feet	<12 [U]	<0.012 [U]
RBL	AF05-SB01	22-Aug-98	AF05SB0130_32	30	32	Feet	<24 [UI]	<0.024 [UI]
RBL	AH05-SB01	14-Oct-98	AH05SB010_2	0	2	Feet	40	0.04
RBL	AH05-SB01	14-Oct-98	AH05SB014_6	4	6	Feet	33	0.033
RBL	AI06-SB01	23-Aug-98	AI06SB010_2	0	2	Feet	13	0.013
RBL	AI06-SB01	23-Aug-98	AI06SB0118_20	18	20	Feet	<11 [U]	<0.011 [U]
RBL	AI06-SB01	23-Aug-98	AI06SB0136_38	36	38	Feet	<11 [U]	<0.011 [U]
RBL	AI06-SB01	23-Aug-98	AI06SB0148_50	48	50	Feet	<10 [U]	<0.01 [U]
RBL	AI06-SB01	23-Aug-98	AI06SB0160-62	60	62	Feet	<11 [U]	<0.011 [U]
--	AI10-SB01	14-Oct-98	AI10SB010_2	0	2	Feet	<13 [U]	<0.013 [U]
--	AP10-SB01	14-Oct-98	AP10SB010_2	0	2	Feet	<24 [UI]	<0.024 [UI]
--	E13-SB01	07-Oct-98	E13SB01	0	2	Feet	28	0.028
--	E13-SB01	07-Oct-98	E13SB010_2	0	2	Feet	36	0.036
--	G17-SB01	08-Oct-98	G17SB010_2	0	2	Feet	<12 [U]	<0.012 [U]
--	G17-SB01	08-Oct-98	G17SB0164_66	64	66	Feet	15	0.015
RBL	K04-SB01	12-Oct-98	K04SB010_2	0	2	Feet	34	0.034
RBL	K04-SB01	12-Oct-98	K04SB01	12	14	Feet	32	0.032
RBL	K04-SB01	12-Oct-98	K04SB0112_14	12	14	Feet	<24 [UI]	<0.024 [UI]
RBL	L04-SB01	12-Oct-98	L04SB010_2	0	2	Feet	<35 [UI]	<0.035 [UI]
RBL	L04-SB01	12-Oct-98	L04SB018_10	8	10	Feet	<24 [UI]	<0.024 [UI]
RBL	L06-SB01	25-Sep-98	L06SB010_2	0	2	Feet	<22 [UI]	<0.022 [UI]
RBL	L06-SB01	25-Sep-98	L06SB0110_12	10	12	Feet	270	0.27
RBL	L06-SB01	25-Sep-98	L06SB0122_24	22	24	Feet	140	0.14
RBL	L06-SB01	25-Sep-98	L06SB0166_68	66	68	Feet	37	0.037
RBL	M04-SB02	10-Oct-98	M04SB020_2	0	2	Feet	53	0.053
RBL	M04-SB02	10-Oct-98	M04SB028_10	8	10	Feet	<25 [UI]	<0.025 [UI]
RBL	M04-SB02	10-Oct-98	M04SB0214_16	14	16	Feet	25	0.025
RBL	M04-SB03	10-Oct-98	M04SB030_2	0	2	Feet	<24 [UI]	<0.024 [UI]
RBL	M04-SB03	10-Oct-98	M04SB036_8	6	8	Feet	<12 [U]	<0.012 [U]
RBL	M04-SB03	10-Oct-98	M04SB0314_16	14	16	Feet	<24 [UI]	<0.024 [UI]
RBL	M04-SB04	12-Oct-98	M04SB040_2	0	2	Feet	78	0.078
RBL	M04-SB04	12-Oct-98	M04SB0410_12	10	12	Feet	33	0.033
RBL	M04-SB05	12-Oct-98	M04SB052_4	2	4	Feet	83	0.083
RBL	M04-SB05	12-Oct-98	M04SB056_8	6	8	Feet	43	0.043
RBL	M04-SB05	12-Oct-98	M04SB0512_14	12	14	Feet	41	0.041
RBL	M06-SB02	28-Sep-98	M06SB022_4	2	4	Feet	42	0.042
RBL	M06-SB02	28-Sep-98	M06SB028_10	8	10	Feet	31	0.031
RBL	M06-SB02	29-Sep-98	M06SB0220_22	20	22	Feet	<11 [U]	<0.011 [U]
RBL	M06-SB02	29-Sep-98	M06SB0240_42	40	42	Feet	<22 [UI]	<0.022 [UI]
RBL	M06-SB02	29-Sep-98	M06SB0266_68	66	68	Feet	35	0.035
RBL	N04-SB01	12-Oct-98	N04SB010_2	0	2	Feet	<25 [UI]	<0.025 [UI]
RBL	N04-SB01	12-Oct-98	N04SB0112_14	12	14	Feet	<25 [UI]	<0.025 [UI]
RBL	N04-SB02	09-Oct-98	N04SB020_2	0	2	Feet	76	0.076
RBL	N04-SB02	09-Oct-98	N04SB028_10	8	10	Feet	<12 [U]	<0.012 [U]

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SWMU #	SRCNAME	DATESMPL	SAMPLE_NUMBER	TOP	BOTTOM	DepthUnit	PFOA (ug/kg)	PFOA (mg/kg)
RBL	N04-SB02	09-Oct-98	N04SB0214_16	14	16	Feet	210	0.21
RBL	N05-SBO1	28-Sep-98	N05SBO12_4	2	4	Feet	<11 [U]	<0.011 [U]
RBL	N05-SBO1	28-Sep-98	N05SBO18_10	8	10	Feet	110	0.11
RBL	N05-SBO1	28-Sep-98	N05SBO120_22	20	22	Feet	1700	1.7
RBL	N05-SBO1	28-Sep-98	N05SBO140_42	40	42	Feet	1200	1.2
RBL	N05-SBO1	28-Sep-98	N05SBO170_72	70	72	Feet	560	0.56
--	N20-SB01	14-Oct-98	N20SB010_2	0	2	Feet	<22 [UI]	<0.022 [UI]
RBL	O04-SB02	11-Oct-98	O04SB020_2	0	2	Feet	33	0.033
RBL	O04-SB02	11-Oct-98	O04SB026_8	6	8	Feet	<20 [UI]	<0.02 [UI]
RBL	O04-SB02	11-Oct-98	O04SB0214_16	14	16	Feet	27	0.027
RBL	O04-SB03	12-Oct-98	O04SB030_2	0	2	Feet	31	0.031
RBL	O04-SB03	12-Oct-98	O04SB0310_12	10	12	Feet	<12 [U]	<0.012 [U]
RBL	O04-SB03	12-Oct-98	O04SB0314_16	14	16	Feet	23	0.023
ADPs/RBL	P04-SB02	09-Oct-98	P04SB020_2	0	2	Feet	50	0.05
ADPs/RBL	P04-SB02	09-Oct-98	P04SB028_10	8	10	Feet	11000	11
ADPs/RBL	P04-SB02	09-Oct-98	P04SB02	14	16	Feet	10000	10
ADPs/RBL	P04-SB02	09-Oct-98	P04SB0214_16	14	16	Feet	10000	10
ADPs/RBL	P05-SB02	24-Sep-98	P05SB022_4	2	4	Feet	20	0.02
ADPs/RBL	P05-SB02	24-Sep-98	P05SB0222_24	22	24	Feet	<21	<0.021
ADPs/RBL	P05-SB02	24-Sep-98	P05SB0242_44	42	44	Feet	<21	<0.021
ADPs/RBL	P05-SB02	24-Sep-98	P05SB0268_70	68	70	Feet	1000	1
--	P14-SB01	14-Oct-98	P14SB010_2	0	2	Feet	50	0.05
ADPs/RBL	Q04-SB03	11-Oct-98	Q04SB030_2	0	2	Feet	160	0.16
ADPs/RBL	Q04-SB03	11-Oct-98	Q04SB038_10	8	10	Feet	46000	46
ADPs/RBL	R04-SB02	09-Oct-98	R04SB020_2	0	2	Feet	9100	9.1
ADPs/RBL	R04-SB02	09-Oct-98	R04SB0210_12	10	12	Feet	7600	7.6
ADPs/RBL	R04-SB02	09-Oct-98	R04SB0218_20	18	20	Feet	11000	11
ADPs/RBL	S04-SB02	11-Oct-98	S04SB020_2	0	2	Feet	1100	1.1
ADPs/RBL	S04-SB02	11-Oct-98	S04SB028_10	8	10	Feet	42000	42
ADPs/RBL	S04-SB02	11-Oct-98	S04SB02	18	20	Feet	8700	8.7
ADPs/RBL	S04-SB02	11-Oct-98	S04SB0218_20	18	20	Feet	11000	11
ADPs/RBL	S05-SB02	26-Sep-98	S05SB022_4	2	4	Feet	27	0.027
ADPs/RBL	S05-SB02	26-Sep-98	S05SB0210_12	10	12	Feet	130	0.13
ADPs/RBL	S05-SB02	26-Sep-98	S05SB0240_42	40	42	Feet	<10 [U]	<0.01 [U]
ADPs/RBL	S05-SB02	26-Sep-98	S05SB0266_68	66	68	Feet	2300	2.3
RBL	T04-SB01	10-Oct-98	T04SB010_2	0	2	Feet	60	0.06
RBL	T04-SB01	10-Oct-98	T04SB0110_12	10	12	Feet	<12 [U]	<0.012 [U]
RBL	T04-SB01	10-Oct-98	T04SB016_18	16	18	Feet	52	0.052
RBL	T14-SB01	05-Oct-98	T14SB010_2	0	2	Feet	<23 [UI]	<0.023 [UI]
RBL	U04-SB01	30-Sep-98	U04SB010_2	0	2	Feet	130	0.13
RBL	U04-SB01	30-Sep-98	U04SB014_6	4	6	Feet	91	0.091
RBL	U04-SB01	30-Sep-98	U04SB0116_18	16	18	Feet	<13 [U]	<0.013 [U]
RBL	V04-SB01	29-Sep-98	V04SB010_2	0	2	Feet	600	0.6
RBL	V04-SB01	29-Sep-98	V04SB014_6	4	6	Feet	160	0.16
RBL	V04-SB01	29-Sep-98	V04SB014_6	4	6	Feet	<14 [U]	<0.014 [U]
RBL	V04-SB01	29-Sep-98	V04SB0118_20	18	20	Feet	<27 [UI]	<0.027 [UI]
RBL	Y04-SB01	20-Aug-98	Y04SB010_2	0	2	Feet	21	0.021
RBL	Y04-SB01	20-Aug-98	Y04SB0110_12	10	12	Feet	<24 [UI]	<0.024 [UI]
RBL	Y04-SB01	20-Aug-98	Y04SB0118_20	18	20	Feet	<13 [U]	<0.013 [U]
RBL	Y04-SB01	20-Aug-98	Y04SB0130_32	30	32	Feet	<24 [UI]	<0.024 [UI]
BG	Y07-SB01	22-Sep-98	Y07SB010_2	0	2	Feet	<11	<0.011
BG	Y07-SB01	22-Sep-98	Y07SB014_6	4	6	Feet	<11	<0.011
BG	Y07-SB01	22-Sep-98	Y07SB018_10	8	10	Feet	<13	<0.013
BG	Y07-SB01	22-Sep-98	Y07SB0114_16	14	16	Feet	75	0.075
BG	Y07-SB01	22-Sep-98	Y07SB0122_24	22	24	Feet	<22	<0.022
BG	Y07-SB01	22-Sep-98	Y07SB0140_42	40	42	Feet	<11	<0.011
BG	Y07-SB01	22-Sep-98	Y07SB0162_64	62	64	Feet	<12	<0.012
--	Y14-SB01	05-Oct-98	Y14SB010_2	0	2	Feet	28	0.028
BG	Z06-SB02	22-Sep-98	Z06SB022_4	2	4	Feet	<12	<0.012
BG	Z06-SB02	22-Sep-98	Z06SB028_10	8	10	Feet	22	0.022
BG	Z06-SB02	22-Sep-98	Z06SB0214_16	14	16	Feet	<10	<0.01
BG	Z06-SB02	22-Sep-98	Z06SB0220_22	20	22	Feet	<12	<0.012
BG	Z06-SB02	22-Sep-98	Z06SB0240_42	40	42	Feet	<11	<0.011

Table 5-1
1991 and 1998 Verification Investigation and RCRA Facility Investigation Soil PFOA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

SWMU #	SRCNAME	DATESMPL	SAMPLE_NUMBER	TOP	BOTTOM	DepthUnit	PFOA (ug/kg)	PFOA (mg/kg)
BG	Z06-SB02	22-Sep-98	Z06SB0262_64	62	64	Feet	<11	<0.011
BG	Z06-SB03	15-Sep-98	Z06SB030_2	0	2	Feet	<26 [UI]	<0.026 [UI]
BG	Z06-SB03	15-Sep-98	Z06SB034_6	4	6	Feet	<21 [UI]	<0.021 [UI]
BG	Z06-SB03	15-Sep-98	Z06SB0310_12	10	12	Feet	<22 [UI]	<0.022 [UI]
BG	Z06-SB03	15-Sep-98	Z06SB0314_16	14	16	Feet	<21 [UI]	<0.021 [UI]
BG	Z06-SB03	15-Sep-98	Z06SB0320_22	20	22	Feet	<21 [UI]	<0.021 [UI]
BG	Z06-SB03	15-Sep-98	Z06SB0340_42	40	42	Feet	<10 [U]	<0.01 [U]
BG	Z06-SB03	15-Sep-98	Z06SB0360_62	60	62	Feet	<24 [UI]	<0.024 [UI]
BG	Z06-SB04	11-Sep-98	Z06SB040_2	0	2	Feet	<26 [UI]	<0.026 [UI]
BG	Z06-SB04	11-Sep-98	Z06SB0410_12	10	12	Feet	57	0.057
BG	Z06-SB04	11-Sep-98	Z06SB0420_22	20	22	Feet	<11 [U]	<0.011 [U]
BG	Z06-SB04	11-Sep-98	Z06SB0440_42	40	42	Feet	<10 [U]	<0.01 [U]
BG	Z06-SB04	11-Sep-98	Z06SB0464_66	64	66	Feet	<22 [UI]	<0.022 [UI]
BG	Z07-SB01	10-Sep-98	Z07SB010_2	0	2	Feet	<22 [UI]	<0.022 [UI]
BG	Z07-SB01	10-Sep-98	Z07SB0110_12	10	12	Feet	<24 [UI]	<0.024 [UI]
BG	Z07-SB01	10-Sep-98	Z07SB0120_22	20	22	Feet	<10 [U]	<0.01 [U]
BG	Z07-SB01	11-Sep-98	Z07SB0162_64	62	64	Feet	<11 [U]	<0.011 [U]
BG	Z09-SB01	03-Sep-98	Z09SB012_4	2	4	Feet	33	0.033
BG	Z09-SB01	03-Sep-98	Z09SB01	8	10	Feet	<12 [U]	<0.012 [U]
BG	Z09-SB01	03-Sep-98	Z09SB018_10	8	10	Feet	<12 [U]	<0.012 [U]
BG	Z09-SB01	03-Sep-98	Z09SB0114_16	14	16	Feet	<12 [U]	<0.012 [U]
BG	Z09-SB01	03-Sep-98	Z09SB0120_22	20	22	Feet	<11 [U]	<0.011 [U]
BG	Z09-SB01	03-Sep-98	Z09SB0140_42	40	42	Feet	<13 [U]	<0.013 [U]
BG	Z09-SB01	03-Sep-98	Z09SB0160_62	60	62	Feet	<24 [UI]	<0.024 [UI]
--	Z11-SB01	05-Oct-98	Z11SB010_2	0	2	Feet	52	0.052

* RFI soil sampling location inadvertently not shown in Figure 5-7. These soil borings are located in the vicinity of the Burning Grounds.

mg/kg = Milligrams per kilogram
SWMU = Solid Waste Management Unit
U = The compound was analyzed for but not detected at the listed reporting limit
UI = The compound was analyzed for but not detected; the associated reporting limit has been raised due to chromatographic interference
µg/kg = Micrograms per kilogram

Relevant SWMUs:
ADPs = Anaerobic Digestion Ponds
BG = Burning Grounds
RBL = River Bank Landfill
-- = unrelated to a specific SWMU

Table 5-2
2006 On-Site Soil and Grass Sampling Study PFOA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Depth (inches bgs)	NumSamps	Units	Avg PFOA	Min PFOA	Max PFOA
0-1"	9	µg/kg, dry weight basis	60.34	24.2	108
		mg/kg, dry weight basis	0.06034	0.0242	0.108
1-3"	9	µg/kg, dry weight basis	46.17	28.6	69.6
		mg/kg, dry weight basis	0.04617	0.0286	0.0696
3-6"	6	µg/kg, dry weight basis	94.83	72	130
		mg/kg, dry weight basis	0.09483	0.072	0.13
6-12"	6	µg/kg, dry weight basis	98.5	44	130
		mg/kg, dry weight basis	0.0985	0.044	0.13

Sample Identification and Depth (inches bgs)	Matrix	Analysis Requested	PFOA Reported (µg/kg), dry weight basis)	PFOA Reported (mg/kg), dry weight basis)	Laboratory
WWK-R-Station 20	unwashed grass	PFOA	574	0.574	Morse Lab
WWK-R-Station 20	washed grass	PFOA	92.8	0.0928	Morse Lab
WWK-R-Station 20	grass wash water	PFOA	24	0.024	STL-Denver
WWK-R-Station 21	unwashed grass	PFOA	216	0.216	Morse Lab
WWK-R-Station 21	washed grass	PFOA	42.4	0.0424	Morse Lab
WWK-R-Station 21	grass wash water	PFOA	8.0	0.008	STL-Denver
WWK-R-Station 22	unwashed grass	PFOA	154	0.154	Morse Lab
WWK-R-Station 22	washed grass	PFOA	33.5	0.0335	Morse Lab
WWK-R-Station 22	grass wash water	PFOA	6.6	0.0066	STL-Denver
deionized water	water	PFOA	ND (<0.0039)	ND (<0.0000039)	Morse Lab
WWK-R-Station 20A (0-1")	soil/grass	PFOA	105	0.105	Morse Lab
WWK-R-Station 20B (0-1")	soil/grass	PFOA	108	0.108	Morse Lab
WWK-R-Station 20C (0-1")	soil/grass	PFOA	134	0.134	Morse Lab
WWK-R-Station 21A (0-1")	soil/grass	PFOA	34.8	0.0348	Morse Lab
WWK-R-Station 21B (0-1")	soil/grass	PFOA	33.0	0.033	Morse Lab
WWK-R-Station 21C (0-1")	soil/grass	PFOA	47.3	0.0473	Morse Lab
WWK-R-Station 22A (0-1")	soil/grass	PFOA	30.0	0.03	Morse Lab
WWK-R-Station 22B (0-1")	soil/grass	PFOA	26.8	0.0268	Morse Lab
WWK-R-Station 22C (0-1")	soil/grass	PFOA	24.2	0.0242	Morse Lab
WWK-R-Station 20A (1-3")	soil/root	PFOA	69.6	0.0696	Morse Lab
WWK-R-Station 20B (1-3")	soil/root	PFOA	61.2	0.0612	Morse Lab
WWK-R-Station 20C (1-3")	soil/root	PFOA	59.4	0.0594	Morse Lab
WWK-R-Station 21A (1-3")	soil/root	PFOA	43.4	0.0434	Morse Lab
WWK-R-Station 21B (1-3")	soil/root	PFOA	36.0	0.036	Morse Lab
WWK-R-Station 21C (1-3")	soil/root	PFOA	38.0	0.038	Morse Lab
WWK-R-Station 22A (1-3")	soil/root	PFOA	41.8	0.0418	Morse Lab
WWK-R-Station 22B (1-3")	soil/root	PFOA	28.6	0.0286	Morse Lab
WWK-R-Station 22C (1-3")	soil/root	PFOA	37.5	0.0375	Morse Lab
WWK-R-Station 20 (1-3")	washed root	PFOA	no roots	---	Morse Lab
WWK-R-Station 21 (1-3")	washed root	PFOA	no roots	---	Morse Lab
WWK-R-Station 22 (1-3")	washed root	PFOA	no roots	---	Morse Lab

Table 5-2
2006 On-Site Soil and Grass Sampling Study PFOA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Identification	Matrix	Analysis Requested	PFOA Reported (µg/kg), dry weight basis)	PFOA Reported (mg/kg), dry weight basis)	Laboratory
WWK-S-Station 20 (3-6")	soil	PFOA	77	0.077	STL-Denver
WWK-S-Station 20 (3-6") dup	soil	PFOA	72	0.072	STL-Denver
WWK-S-Station 21 (3-6")	soil	PFOA	79	0.079	STL-Denver
WWK-S-Station 21 (3-6") dup	soil	PFOA	91	0.091	STL-Denver
WWK-S-Station 22 (3-6")	soil	PFOA	130	0.13	STL-Denver
WWK-S-Station 22 (3-6") dup	soil	PFOA	120	0.12	STL-Denver
WWK-S-Station 20 (6-12")	soil	PFOA	47	0.047	STL-Denver
WWK-S-Station 20 (6-12") dup	soil	PFOA	44	0.044	STL-Denver
WWK-S-Station 21 (6-12")	soil	PFOA	120	0.12	STL-Denver
WWK-S-Station 21 (6-12") dup	soil	PFOA	130	0.13	STL-Denver
WWK-S-Station 22 (6-12")	soil	PFOA	120	0.12	STL-Denver
WWK-S-Station 22 (6-12") dup	soil	PFOA	130	0.13	STL-Denver

Notes for summary data at the top of the table:

Field duplicate results were not averaged with parent sample results. Field duplicates were treated as separate samples.
Half of the limit of detection (LOD) was used to calculate the average PFOA result if result was a not detect (ND).
The limit of quantitation (LOQ) was used to calculate the average PFOA result if result was not quantifiable (NQ).
If the minimum result was ND or NQ, ND or NQ was listed, not half the LOD or the LOQ.

dup = Duplicate
g/kg = Grams per kilogram
inches bgs = Inches below ground surface
mg/kg = Milligrams per kilogram
ND = Not detected at the limit of detection shown
µg/kg = Micrograms per kilogram

Table 5-3
2013 Chestnut Tree Plantation and East Field AOC Soil PFOA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location	Depth (ft bgs)	Description	Sample Name	Date	PFOA (µg/kg)	PFOA (mg/kg)	Method Detection Limit (µg/kg)	Lab Detection Limit (µg/kg)
Background Locations								
RA0613-BG1	0 - 0.5	topsoil mixed with silty clay	RA0613-BG1-0-0.5	6/11/2013	5.5	0.0055	0.44	2.1
RA0613-BG2	0 - 0.5	topsoil mixed with silty clay	RA0613-BG2-0-0.5	6/11/2013	14	0.014	0.43	2.1
RA0613-BG3	0 - 0.5	topsoil mixed with silty clay	RA0613-BG3-0-0.5	6/11/2013	7.7	0.0077	0.43	2.1
RA0613-BG4	0 - 0.5	tan to red, dry, silty clay	RA0613-BG4-0-0.5	6/11/2013	21	0.021	0.42	2.1
RA0613-BG5	0 - 0.5	dry, brown, silty clay	RA0613-BG5-0-0.5	6/11/2013	47	0.047	0.45	2.2
RA0613-BG6	0 - 0.5	rocky, dry, brown, silty clay	RA0613-BG6-0-0.5	6/11/2013	19	0.019	0.41	2
RA0613-BG7	0 - 0.5	dry, brown, silty clay	RA0613-BG7-0-0.5	6/11/2013	12	0.012	0.47	2.3
RA0613-BG8	0 - 0.5	dry, brown, silty clay	RA0613-BG8-0-0.5	6/11/2013	15	0.015	0.46	2.2
RA0613-BG9	0 - 0.5	dry, brown, silty clay	RA0613-BG9-0-0.5	6/11/2013	12	0.012	0.43	2.1
RA0613-BG9	0 - 0.5	dry, brown, silty clay	RA0613-BG9-0-0.5-D	6/11/2013	12	0.012	0.44	2.1
East Field AOC								
RA0613-EF1	0 - 1.5	coal and gravel	RA0613-EFAOC-SS1-0-0.5	6/10/2013	30	0.03	0.39	1.9
	1.5 - 2.0	dry, brown, silty clay	RA0613-EFAOC-SS1-1.5-2.0	6/10/2013	6.5	0.0065	0.42	2.1
RA0613-EF2	0 - 0.5	topsoil/fill material	RA0613-EFAOC-SS2-0-0.5	6/10/2013	8.1	0.0081	0.45	2.2
	0.5 - 1.5	gravel/rock layer						
	1.5 - 2.0	very dry, silty clay	RA0613-EFAOC-SS2-1.5-2.0	6/10/2013	21	0.021	0.4	2
RA0613-EF3	0 - 0.5	fill material, coal, silty clay	RA0613-EFAOC-SS3-0-0.5	6/10/2013	24	0.024	0.4	2
	0.5 - 1.0	very dry, hard, brown, silty clay	RA0613-EFAOC-SS3-0.5-1.0	6/10/2013	28	0.028	0.49	2.4
RA0613-EF4	0 - 0.5	gravely top soil	RA0613-EFAOC-SS4-0-0.5	6/10/2013	19	0.019	0.41	2
	0.5 - 1.5	coal						
	1.5 - 2.0	brown silty sand	RA0613-EFAOC-SS4-1.5-2.0	6/10/2013	35	0.035	0.38	1.9
RA0613-EF5	0 - 0.5	topsoil with coal	RA0613-EFAOC-SS5-0-0.5	6/10/2013	20	0.02	0.39	1.9
	0.5 - 1.0	clay fill with coal						
	1.0 - 1.5	very dry, brown silty clay	RA0613-EFAOC-SS5-1.0-1.5	6/10/2013	38	0.038	0.4	1.9
RA0613-EF6	0 - 0.5	topsoil with coal mixed in	RA0613-EFAOC-SS6-0-0.5	6/10/2013	15	0.015	0.41	2
	0.5 - 1.0	dry brown silty clay	RA0613-EFAOC-SS6-0.5-1.0	6/10/2013	71	0.071	0.41	2
			RA0613-EFAOC-SS6-0.5-1.0-D	6/10/2013	66	0.066	0.4	1.9
RA0613-EF7	0 - 2.0	clay fill with coal						
	2.0 - 3.5	coal and gravel, refusal at 3.5						
RA0613-EF8	0 - 2.0	red clay fill						
	2.0 - 3.5	col and gravel						
	3.5 - 4.0	brown to gray silty clay	RA0613-EFAOC-SS8-3.5-4.0	6/12/2013	10	0.01	0.39	1.9
RA0613-EF9	0 - 1.5	red clay fill						
	1.5 - 2.5	coal, gravel, ash/gray silt						
	2.5 - 3.0	brown silty sand	RA0613-EFAOC-SS9-2.5-3.0	6/10/2013	4.3	0.0043	0.4	2
RA0613-EF10	0 - 2.0	red clay fill						
	2.0 - 4.0	clay and gray, fine, silty material, possibly biosolids						
	4.0 - 4.5	brown silty sand	RA0613-EFAOC-SS10-4.0-4.5	6/10/2013	4.5	0.0045	0.41	2
			RA0613-EFAOC-SS10-4.0-4.5-D	6/10/2013	5	0.005	0.45	2.2

Table 5-3
2013 Chestnut Tree Plantation and East Field AOC Soil PFOA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location	Depth (ft bgs)	Description	Sample Name	Date	PFOA (µg/kg)	PFOA (mg/kg)	Method Detection Limit (µg/kg)	Lab Detection Limit (µg/kg)
Chestnut Tree Plantation AOC								
RA0613-CTP1	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS1-0-0.5	6/11/2013	14	0.014	0.46	2.2
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS1-0.5-2.0	6/11/2013	23	0.023	0.46	2.2
RA0613-CTP2	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS2-0-0.5	6/11/2013	12	0.012	0.41	2
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS2-0.5-2.0	6/11/2013	19	0.019	0.45	2.2
RA0613-CTP3	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS3-0-0.5	6/11/2013	41	0.041	0.46	2.2
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS3-0.5-2.0	6/11/2013	31	0.031	0.45	2.2
RA0613-CTP4	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS4-0-0.5	6/11/2013	17	0.017	0.45	2.2
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS4-0.5-2.0	6/11/2013	14	0.014	0.43	2.1
RA0613-CTP5	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS5-0-0.5	6/11/2013	18	0.018	0.48	2.3
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS5-0.5-2.0	6/11/2013	12	0.012	0.43	2.1
RA0613-CTP6	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS6-0-0.5	6/11/2013	13	0.013	0.47	2.3
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS6-0.5-2.0	6/11/2013	14	0.014	0.43	2.1
RA0613-CTP7	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS7-0-0.5	6/11/2013	10	0.01	0.45	2.2
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS7-0.5-2.0	6/11/2013	9.9	0.0099	0.43	2.1
RA0613-CTP8	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS8-0-0.5	6/11/2013	13	0.013	0.46	2.2
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS8-0.5-2.0	6/11/2013	12	0.012	0.43	2.1
RA0613-CTP9	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS9-0-0.5	6/11/2013	8.8	0.0088	0.44	2.2
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS9-0.5-2.0	6/11/2013	8.3	0.0083	0.44	2.1
RA0613-CTP10	0 - 0.5	brown topsoil	RA0613-CTPAOC-SS10-0-0.5	6/11/2013	11	0.011	0.44	2.1
			RA0613-CTPAOC-SS10-0-0.5-D	6/11/2013	11	0.011	0.46	2.2
	0.5 - 2.0	brown, silty clay	RA0613-CTPAOC-SS10-0.5-2.0	6/11/2013	11	0.011	0.42	2

ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram
µg/kg = Micrograms per kilogram

Table 5-4
2018 East Pad Roll-Off Staging Area Release PFOA and HFPO-DA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample ID and Depth (ft bgs)	Boring ID	Date/Time Collected	HFPO-DA (µg/kg)	HFPO-DA (mg/kg)	PFOA (µg/kg)	PFOA (mg/kg)
WW-E.TruckPad-SB01(0.5-1.5)	TruckPad-SB01	5/17/18 11:43 AM	26	0.026	18	0.018
WW-E.TruckPad-SB01(5.0-6.0)	TruckPad-SB01	5/17/18 11:46 AM	<1.3	<0.0013	7.9	0.0079
WW-E.TruckPad-SB01(9.0-10.0)	TruckPad-SB01	5/17/18 11:50 AM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB02(0.5-1.5)	TruckPad-SB02	5/17/2018 12:50 PM	12	0.012	21	0.021
WW-E.TruckPad-SB02(5.0-6.0)	TruckPad-SB02	5/17/2018 12:56 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB02(9.0-10.0)	TruckPad-SB02	5/17/2018 1:02 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB03(0.5-1.5)	TruckPad-SB03	5/17/2018 1:06 PM	2.8	0.0028	15	0.015
WW-E.TruckPad-SB03(5.0-6.0)	TruckPad-SB03	5/17/2018 1:13 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB03(9.0-10.0)	TruckPad-SB03	5/17/2018 1:17 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB04(0.5-1.5)	TruckPad-SB04	5/17/2018 1:24 PM	5.2	0.0052	20	0.02
WW-E.TruckPad-SB04(5.0-6.0)	TruckPad-SB04	5/17/2018 1:29 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB04(9.0-10.0)	TruckPad-SB04	5/17/2018 1:33 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB05(0.5-1.5)	TruckPad-SB05	5/17/2018 1:38 PM	16	0.016	15	0.015
WW-E.TruckPad-SB05(5.0-6.0)	TruckPad-SB05	5/17/2018 1:42 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB05(9.0-10.0)	TruckPad-SB05	5/17/2018 1:46 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB06(0.5-1.5)	TruckPad-SB06	5/17/2018 11:30 AM	16	0.016	13	0.013
WW-E.TruckPad-SB06(5.0-6.0)	TruckPad-SB06	5/17/2018 11:35 AM	2.0	0.002	<1.3	<0.0013
WW-E.TruckPad-SB06(9.0-10.0)	TruckPad-SB06	5/17/2018 11:38 AM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB07(0.5-1.5)	TruckPad-SB07	5/17/2018 11:15 AM	1.6	0.0016	7.4	0.0074
WW-E.TruckPad-SB07(5.0-6.0)	TruckPad-SB07	5/17/2018 11:22 AM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB07(9.0-10.0)	TruckPad-SB07	5/17/2018 11:25 AM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB08(0.5-1.5)	TruckPad-SB08	5/17/2018 11:00 AM	4.1	0.0041	13	0.013
WW-E.TruckPad-SB08(5.0-6.0)	TruckPad-SB08	5/17/2018 11:06 AM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB08(9.0-10.0)	TruckPad-SB08	5/17/2018 11:09 AM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB09(0.5-1.5)	TruckPad-SB09	5/17/2018 10:00 AM	29	0.029	26	0.026
WW-E.TruckPad-SB09(5.0-6.0)	TruckPad-SB09	5/17/2018 10:05 AM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB09(9.0-10.0)	TruckPad-SB09	5/17/2018 10:08 AM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB09(9.0-10.0)-D	TruckPad-SB09	5/17/2018 10:08 AM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB10(0.5-1.5)	TruckPad-SB10	5/16/2018 4:44 PM	4.0	0.004	<1.3	<0.0013
WW-E.TruckPad-SB10(5.0-6.0)	TruckPad-SB10	5/16/2018 4:49 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB10(9.0-10.0)	TruckPad-SB10	5/16/2018 4:53 PM	<1.3	<0.0013	<1.3	<0.0013

Table 5-4
2018 East Pad Roll-Off Staging Area Release PFOA and HFPO-DA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample ID and Depth (ft bgs)	Boring ID	Date/Time Collected	HFPO-DA (µg/kg)	HFPO-DA (mg/kg)	PFOA (µg/kg)	PFOA (mg/kg)
WW-E.TruckPad-SB11(0.5-1.5)	TruckPad-SB11	5/16/2018 4:27 PM	35	0.035	25	0.025
WW-E.TruckPad-SB11(5.0-6.0)	TruckPad-SB11	5/16/2018 4:32 PM	3.6	0.0036	<1.3	<0.0013
WW-E.TruckPad-SB11(9.0-10.0)	TruckPad-SB11	5/16/2018 4:36 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB12(0.5-1.5)	TruckPad-SB12	5/16/2018 4:12 PM	67	0.067	18	0.018
WW-E.TruckPad-SB12(5.0-6.0)	TruckPad-SB12	5/16/2018 4:18 PM	<1.3	<0.0013	1.4	0.0014
WW-E.TruckPad-SB12(9.0-10.0)	TruckPad-SB12	5/16/2018 4:22 PM	<1.3	<0.0013	<1.3	<0.0013
WW-E.TruckPad-SB13(0.5-1.5)	TruckPad-SB13	5/16/2018 3:41 PM	1300	1.3	49	0.049
WW-E.TruckPad-SB13(5.0-6.0)	TruckPad-SB13	5/16/2018 3:46 PM	260	0.26	5.0	0.005
WW-E.TruckPad-SB13(9.0-10.0)	TruckPad-SB13	5/16/2018 3:50 PM	83	0.083	<1.3	<0.0013
WW-E.TruckPad-SB14(0.5-1.5)	TruckPad-SB14	5/16/2018 3:26 PM	1900	1.9	220	0.22
WW-E.TruckPad-SB14(5.0-6.0)	TruckPad-SB14	5/16/2018 3:31 PM	8.5	0.0085	<1.3	<0.0013
WW-E.TruckPad-SB14(9.0-10.0)	TruckPad-SB14	5/16/2018 3:36 PM	7.8	0.0078	<1.3	<0.0013
WW-E.TruckPad-SB15(0.5-1.5)	TruckPad-SB15	5/16/2018 3:06 PM	3900	3.9	64	0.064
WW-E.TruckPad-SB15(5.0-6.0)	TruckPad-SB15	5/16/2018 3:12 PM	7.1	0.0071	<1.3	<0.0013
WW-E.TruckPad-SB15(9.0-10.0)	TruckPad-SB15	5/16/2018 3:18 PM	220	0.22	<1.3	<0.0013
WW-E.TruckPad-SB16(0.5-1.5)	TruckPad-SB16	5/16/2018 2:45 PM	1200	1.2	31	0.031
WW-E.TruckPad-SB16(5.0-6.0)	TruckPad-SB16	5/16/2018 2:50 PM	740	0.74	8.2	0.0082
WW-E.TruckPad-SB16(5.0-6.0)-D	TruckPad-SB16	5/16/2018 2:50 PM	370	0.37	5.3	0.0053
WW-E.TruckPad-SB16(9.0-10.0)	TruckPad-SB16	5/16/2018 2:55 PM	2.1	0.0021	<1.3	<0.0013
WW-E.TruckPad-SB17(0.5-1.5)	TruckPad-SB17	5/16/2018 2:12 PM	22	0.022	12	0.012
WW-E.TruckPad-SB17(5.0-6.0)	TruckPad-SB17	5/16/2018 2:20 PM	6.5	0.0065	2.8	0.0028
WW-E.TruckPad-SB17(9.0-10.0)	TruckPad-SB17	5/16/2018 2:24 PM	3.0	0.003	<1.3	<0.0013

ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram
µg/kg = Micrograms per kilogram
< = Not detected at the method detection limit shown
(0.5-1.5) = shallow sample depth bgs
(5.0-6.0) = middle sample depth bgs
(9.0-10.0) = deep sample depth bgs

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

AE11-MW01	**Latitude (Decimal):**	39.26896286	**Longitude (Decimal):**	-81.6620865
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.6 - < 13	
3:3 FTCA	2	0	< 7 - < 16	
4:2 FTS	2	0	< 5.6 - < 13	
5:3 FTCA	2	0	< 35 - < 79	
6:2 FTS	2	0	< 5.6 - < 13	
7:3 FTCA	2	0	< 35 - < 79	
8:2 FTS	2	0	< 5.6 - < 13	
9Cl-PF3ONS	2	0	< 5.6 - < 13	
DONA	2	0	< 5.6 - < 13	
HFPO-DA	14	14		1000 - 2000
NEtFOSA	2	0	< 1.4 - < 3.1	
NEtFOSAA	2	0	< 1.4 - < 3.1	
NEtFOSE	2	0	< 14 - < 31	
NMeFOSA	2	0	< 1.4 - < 3.1	
NMeFOSAA	2	0	< 1.4 - < 3.1	
NMeFOSE	2	0	< 14 - < 31	
PFBA	14	14		43 - 96
PFBS	14	1	< 3.1 - < 20	1.7
PFDA	14	0	< 1.4 - < 20	
PFDoA	14	0	< 1.4 - < 30	
PFDoS	2	0	< 1.4 - < 3.1	
PFDS	14	0	< 1.4 - < 20	
PFECA B	2	0	< 2.8 - < 6.3	
PFECA-A	2	0	< 2.8 - < 6.3	
PFECA-F	2	0	< 2.8 - < 6.3	
PFEESA	2	0	< 2.8 - < 6.3	
PFHpA	14	14		280 - 710
PFHpS	2	0	< 1.4 - < 3.1	
PFHxA	14	14		70 - 150
PFHxS	14	1	< 3.1 - < 30	2.6
PFNA	14	2	< 40	8.6 - 9.4
PFNS	2	0	< 1.4 - < 3.1	
PFOA	14	14		7400 - 16000
PFOS	14	3	< 30	7.8 - 230
PFOSA	2	0	< 1.4 - < 3.1	
PFPA	14	14		31 - 62
PFPeS	2	0	< 1.4 - < 3.1	
PFTeA	14	0	< 1.4 - < 30	
PFTriA	14	0	< 1.4 - < 40	
PFUnA	14	0	< 1.4 - < 20	

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

D08-MW01	Latitude (Decimal):	39.26801682	Longitude (Decimal):	-81.6813965
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.5 - < 6.2	
3:3 FTCA	2	0	< 6.9 - < 7.8	
4:2 FTS	2	0	< 5.5 - < 6.2	
5:3 FTCA	2	0	< 34 - < 39	
6:2 FTS	2	0	< 5.5 - < 6.2	
7:3 FTCA	2	0	< 34 - < 39	
8:2 FTS	2	0	< 5.5 - < 6.2	
9Cl-PF3ONS	2	0	< 5.5 - < 6.2	
DONA	2	0	< 5.5 - < 6.2	
HFPO-DA	14	14		12 - 43
NEtFOSA	2	0	< 1.4 - < 1.6	
NEtFOSAA	2	0	< 1.4 - < 1.6	
NEtFOSE	2	0	< 14 - < 780	
NMeFOSA	2	0	< 1.4 - < 1.6	
NMeFOSAA	2	0	< 1.4 - < 1.6	
NMeFOSE	2	0	< 14 - < 780	
PFBA	14	14		35 - 60
PFBS	14	1	< 1.6 - < 20	1.4
PFDA	14	0	< 1.4 - < 20	
PFDoA	14	0	< 1.4 - < 30	
PFDoS	2	0	< 1.4 - < 1.6	
PFDS	14	0	< 1.4 - < 20	
PFECA B	2	0	< 2.7 - < 3.1	
PFECA-A	2	0	< 2.7 - < 3.1	
PFECA-F	2	0	< 2.7 - < 3.1	
PFEESA	2	0	< 2.7 - < 3.1	
PFHpA	14	14		120 - 270
PFHpS	2	0	< 1.4 - < 1.6	
PFHxA	14	14		63 - 120
PFHxS	14	2	< 30	3.4 - 3.8
PFNA	14	2	< 40	5.3 - 5.8
PFNS	2	0	< 1.4 - < 1.6	
PFOA	14	14		6500 - 12000
PFOS	14	0	< 1.4 - < 30	
PFOSA	2	0	< 1.4 - < 1.6	
PFPA	14	2	< 30	20
PFPeS	2	0	< 1.4 - < 1.6	
PFTeA	14	0	< 1.4 - < 78	
PFTriA	14	0	< 1.4 - < 78	
PFUnA	14	0	< 1.4 - < 20	

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

E13-MW01	**Latitude (Decimal):**	39.26507187	**Longitude (Decimal):**	-81.6796494
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 6.5 - < 9.6	
3:3 FTCA	2	0	< 8.1 - < 12	
4:2 FTS	2	0	< 6.5 - < 9.6	
5:3 FTCA	2	0	< 41 - < 60	
6:2 FTS	2	0	< 6.5 - < 9.6	
7:3 FTCA	2	0	< 41 - < 60	
8:2 FTS	2	0	< 6.5 - < 9.6	
9Cl-PF3ONS	2	0	< 6.5 - < 9.6	
DONA	2	0	< 6.5 - < 9.6	
HFPO-DA	14	14		43 - 170
NEtFOSA	2	0	< 1.6 - < 2.4	
NEtFOSAA	2	0	< 1.6 - < 2.4	
NEtFOSE	2	0	< 16 - < 24	
NMeFOSA	2	0	< 1.6 - < 2.4	
NMeFOSAA	2	0	< 1.6 - < 2.4	
NMeFOSE	2	0	< 16 - < 24	
PFBA	14	14		23 - 50
PFBS	14	8	< 20	11 - 38
PFDA	14	0	< 1.6 - < 20	
PFDoA	14	0	< 1.6 - < 30	
PFDoS	2	0	< 1.6 - < 2.4	
PFDS	14	0	< 1.6 - < 20	
PFECA B	2	0	< 3.3 - < 4.8	
PFECA-A	2	0	< 3.3 - < 4.8	
PFECA-F	2	0	< 3.3 - < 4.8	
PFEESA	2	0	< 3.3 - < 4.8	
PFHpA	14	14		64 - 120
PFHpS	2	2		5.8 - 6.6
PFHxA	14	14		45 - 120
PFHxS	14	14		170 - 730
PFNA	14	0	< 1.6 - < 40	
PFNS	2	0	< 1.6 - < 2.4	
PFOA	14	14		2600 - 3400
PFOS	14	1	< 2.4 - < 30	5.8
PFOSA	2	0	< 1.6 - < 2.4	
PFPA	14	12	< 30	32 - 77
PFPeS	2	2		22 - 29
PFTeA	14	0	< 1.6 - < 30	
PFTriA	14	0	< 1.6 - < 40	
PFUnA	14	0	< 1.6 - < 20	

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

L06-MW01	Latitude (Decimal):	39.26998138	Longitude (Decimal):	-81.67588043
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.6 - < 300	
3:3 FTCA	2	0	< 7 - < 380	
4:2 FTS	2	0	< 5.6 - < 300	
5:3 FTCA	2	0	< 35 - < 1900	
6:2 FTS	2	1	< 300	17
7:3 FTCA	2	0	< 35 - < 1900	
8:2 FTS	2	0	< 5.6 - < 300	
9Cl-PF3ONS	2	0	< 5.6 - < 300	
DONA	2	0	< 5.6 - < 300	
HFPO-DA	14	12	< 10 - < 300	17 - 3300
NEtFOSA	2	0	< 1.4 - < 75	
NEtFOSAA	2	0	< 1.4 - < 75	
NEtFOSE	2	0	< 14 - < 750	
NMeFOSA	2	0	< 1.4 - < 75	
NMeFOSAA	2	0	< 1.4 - < 75	
NMeFOSE	2	0	< 14 - < 750	
PFBA	14	5	< 20 - < 300	21 - 100
PFBS	14	1	< 20 - < 75	6.2
PFDA	14	1	< 20 - < 75	1.5
PFDoA	14	3	< 30 - < 75	8.9 - 82
PFDoS	2	0	< 1.4 - < 75	
PFDS	14	0	< 1.4 - < 75	
PFECA B	2	0	< 2.8 - < 150	
PFECA-A	2	0	< 2.8 - < 150	
PFECA-F	2	0	< 2.8 - < 150	
PFEESA	2	0	< 2.8 - < 150	
PFHpA	14	5	< 30 - < 75	34 - 160
PFHpS	2	1	< 75	2.5
PFHxA	14	5	< 20 - < 75	34 - 180
PFHxS	14	4	< 30 - < 75	32 - 40
PFNA	14	1	< 40 - < 75	14
PFNS	2	0	< 1.4 - < 75	
PFOA	14	14		170 - 12000
PFOS	14	4	< 30	65 - 110
PFOSA	2	0	< 1.4 - < 75	
PFPA	14	3	< 30 - < 150	79 - 150
PFPeS	2	1	< 75	4.8
PFTeA	14	3	< 30 - < 75	4.2 - 52
PFTriA	14	2	< 40 - < 75	3.4 - 49
PFUnA	14	2	< 20 - < 75	4.7 - 21

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

M04-MW02	**Latitude (Decimal):**	39.27103806	**Longitude (Decimal):**	-81.67523956
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.5 - < 6.2	
3:3 FTCA	2	2		1600 - 2200
4:2 FTS	2	0	< 6.2 - < 560	
5:3 FTCA	2	2		780 - 900
6:2 FTS	2	0	< 5.5 - < 6.2	
7:3 FTCA	2	2		130 - 140
8:2 FTS	2	0	< 5.5 - < 6.2	
9Cl-PF3ONS	2	0	< 5.5 - < 6.2	
DONA	2	0	< 5.5 - < 6.2	
HFPO-DA	14	14		6600 - 150000
NEtFOSA	2	0	< 1.4 - < 1.6	
NEtFOSAA	2	0	< 1.4 - < 1.6	
NEtFOSE	2	0	< 14 - < 16	
NMeFOSA	2	0	< 1.4 - < 1.6	
NMeFOSAA	2	0	< 1.4 - < 1.6	
NMeFOSE	2	0	< 14 - < 16	
PFBA	14	14		800 - 3300
PFBS	14	6	< 20	11 - 26
PFDA	14	14		800 - 1900
PFDoA	14	2	< 30	11 - 13
PFDoS	2	0	< 1.4 - < 1.6	
PFDS	14	0	< 1.4 - < 20	
PFECA B	2	0	< 2.7 - < 3.1	
PFECA-A	2	2		23 - 25
PFECA-F	2	2		21 - 23
PFEESA	2	0	< 2.7 - < 3.1	
PFHpA	14	14		600 - 1700
PFHpS	2	2		3.4 - 5.2
PFHxA	14	14		950 - 3500
PFHxS	14	14		34 - 120
PFNA	14	14		1300 - 5500
PFNS	2	0	< 1.4 - < 1.6	
PFOA	14	14		6800 - 60000
PFOS	14	14		42 - 180
PFOSA	2	0	< 1.4 - < 1.6	
PFPA	14	14		1200 - 6600
PFPeS	2	2		14 - 16
PFTeA	14	0	< 1.4 - < 30	
PFTriA	14	0	< 1.4 - < 40	
PFUnA	14	14		54 - 150

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

N05-MW01	**Latitude (Decimal):**	39.27050018	**Longitude (Decimal):**	-81.67424774
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.6 - < 320	
3:3 FTCA	2	0	< 7 - < 400	
4:2 FTS	2	0	< 5.6 - < 320	
5:3 FTCA	2	0	< 35 - < 2000	
6:2 FTS	2	1	< 320	8.2
7:3 FTCA	2	0	< 35 - < 2000	
8:2 FTS	2	0	< 5.6 - < 320	
9Cl-PF3ONS	2	0	< 5.6 - < 320	
DONA	2	0	< 5.6 - < 320	
HFPO-DA	14	13	< 320	19 - 700
NEtFOSA	2	0	< 1.4 - < 80	
NEtFOSAA	2	0	< 1.4 - < 80	
NEtFOSE	2	0	< 14 - < 800	
NMeFOSA	2	0	< 1.4 - < 80	
NMeFOSAA	2	0	< 1.4 - < 80	
NMeFOSE	2	0	< 14 - < 800	
PFBA	14	11	< 20 - < 320	41 - 270
PFBS	14	1	< 20 - < 80	12
PFDA	14	14		430 - 1700
PFDoA	14	1	< 30 - < 80	10
PFDoS	2	0	< 1.4 - < 80	
PFDS	14	0	< 1.4 - < 80	
PFECA B	2	0	< 2.8 - < 160	
PFECA-A	2	0	< 2.8 - < 160	
PFECA-F	2	0	< 2.8 - < 160	
PFEESA	2	0	< 2.8 - < 160	
PFHpA	14	13	< 80	47 - 130
PFHpS	2	0	< 1.4 - < 80	
PFHxA	14	14		28 - 280
PFHxS	14	11	< 30 - < 80	26 - 68
PFNA	14	13	< 80	33 - 89
PFNS	2	0	< 1.4 - < 80	
PFOA	14	14		2300 - 5900
PFOS	14	1	< 30 - < 80	16
PFOSA	2	0	< 1.4 - < 80	
PFPA	14	11	< 30 - < 160	34 - 88
PFPeS	2	1	< 80	13
PFTeA	14	2	< 30 - < 80	7 - 52
PFTriA	14	1	< 40 - < 80	2.3
PFUnA	14	1	< 20 - < 80	4.9

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

P06-MW02	Latitude (Decimal):	39.26998138	Longitude (Decimal):	-81.673172
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.5 - < 570	
3:3 FTCA	2	1	< 710	11
4:2 FTS	2	0	< 5.5 - < 570	
5:3 FTCA	2	0	< 35 - < 3600	
6:2 FTS	2	1	< 570	39
7:3 FTCA	2	0	< 35 - < 3600	
8:2 FTS	2	0	< 5.5 - < 570	
9Cl-PF3ONS	2	0	< 5.5 - < 570	
DONA	2	0	< 5.5 - < 570	
HFPO-DA	14	14		610 - 2200
NEtFOSA	2	0	< 1.4 - < 140	
NEtFOSAA	2	0	< 1.4 - < 140	
NEtFOSE	2	0	< 14 - < 1400	
NMeFOSA	2	0	< 1.4 - < 140	
NMeFOSAA	2	0	< 1.4 - < 140	
NMeFOSE	2	0	< 14 - < 1400	
PFBA	14	13	< 570	61 - 480
PFBS	14	2	< 20 - < 140	21 - 85
PFDA	14	14		1600 - 4200
PFDoA	14	1	< 30 - < 140	2.3
PFDoS	2	0	< 1.4 - < 140	
PFDS	14	0	< 1.4 - < 140	
PFECA B	2	0	< 2.8 - < 290	
PFECA-A	2	0	< 2.8 - < 290	
PFECA-F	2	0	< 2.8 - < 290	
PFEESA	2	0	< 2.8 - < 290	
PFHpA	14	14		200 - 790
PFHpS	2	1	< 140	7.4
PFHxA	14	14		120 - 610
PFHxS	14	9	< 30	33 - 280
PFNA	14	14		130 - 320
PFNS	2	0	< 1.4 - < 140	
PFOA	14	14		5500 - 33000
PFOS	14	6	< 30 - < 140	31 - 43
PFOSA	2	0	< 1.4 - < 140	
PFPA	14	13	< 290	140 - 920
PFPeS	2	1	< 140	47
PFTeA	14	0	< 1.4 - < 140	
PFTriA	14	0	< 1.4 - < 140	
PFUnA	14	13	< 140	22 - 44

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

P08-MW01	Latitude (Decimal):	39.26901245	Longitude (Decimal):	-81.672447
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.7 - < 650	
3:3 FTCA	2	1	< 820	22
4:2 FTS	2	0	< 510 - < 650	
5:3 FTCA	2	0	< 36 - < 4100	
6:2 FTS	2	0	< 5.7 - < 650	
7:3 FTCA	2	0	< 36 - < 4100	
8:2 FTS	2	0	< 510 - < 650	
9Cl-PF3ONS	2	0	< 5.7 - < 650	
DONA	2	0	< 5.7 - < 650	
HFPO-DA	13	13		210 - 1800
NEtFOSA	2	0	< 1.4 - < 160	
NEtFOSAA	2	0	< 1.4 - < 160	
NEtFOSE	2	0	< 14 - < 1600	
NMeFOSA	2	0	< 1.4 - < 160	
NMeFOSAA	2	0	< 1.4 - < 160	
NMeFOSE	2	0	< 14 - < 1600	
PFBA	13	12	< 650	140 - 640
PFBS	13	9	< 20 - < 160	21 - 76
PFDA	13	13		230 - 900
PFDoA	13	0	< 1.4 - < 160	
PFDoS	2	0	< 1.4 - < 160	
PFDS	13	0	< 1.4 - < 160	
PFECA B	2	0	< 2.9 - < 330	
PFECA-A	2	0	< 2.9 - < 330	
PFECA-F	2	1	< 330	5.7
PFEESA	2	0	< 2.9 - < 330	
PFHpA	13	13		370 - 1600
PFHpS	2	1	< 160	3.7
PFHxA	13	13		250 - 530
PFHxS	13	13		160 - 640
PFNA	13	8	< 40 - < 160	28 - 93
PFNS	2	0	< 1.4 - < 160	
PFOA	13	13		11000 - 46000
PFOS	13	1	< 30 - < 160	3.8
PFOSA	2	0	< 1.4 - < 160	
PFPA	13	12	< 330	170 - 1300
PFPeS	2	1	< 160	43
PFTeA	13	0	< 1.4 - < 160	
PFTriA	13	0	< 1.4 - < 160	
PFUnA	13	1	< 20 - < 160	2

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

T13-MW01	**Latitude (Decimal):**	39.26660919	**Longitude (Decimal):**	-81.66939545
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 6 - < 6.2	
3:3 FTCA	2	0	< 7.5 - < 7.7	
4:2 FTS	2	0	< 6 - < 120	
5:3 FTCA	2	0	< 37 - < 39	
6:2 FTS	2	1	< 120	24
7:3 FTCA	2	0	< 37 - < 39	
8:2 FTS	2	0	< 6 - < 120	
9Cl-PF3ONS	2	0	< 6 - < 6.2	
DONA	2	0	< 6 - < 6.2	
HFPO-DA	14	14		29 - 90
NEtFOSA	2	0	< 1.5	
NEtFOSAA	2	0	< 1.5	
NEtFOSE	2	0	< 15	
NMeFOSA	2	0	< 1.5	
NMeFOSAA	2	0	< 1.5	
NMeFOSE	2	0	< 15	
PFBA	14	14		42 - 140
PFBS	14	2	< 20	3.6 - 4.1
PFDA	14	2	< 20	2.9 - 3.1
PFDoA	14	0	< 1.5 - < 30	
PFDoS	2	0	< 1.5	
PFDS	14	0	< 1.5 - < 20	
PFECA B	2	0	< 3 - < 3.1	
PFECA-A	2	0	< 3 - < 3.1	
PFECA-F	2	0	< 3 - < 3.1	
PFEESA	2	0	< 3 - < 3.1	
PFHpA	14	14		130 - 300
PFHpS	2	0	< 1.5	
PFHxA	14	14		82 - 160
PFHxS	14	2	< 30	9.1 - 9.8
PFNA	14	2	< 40	4.8 - 5.5
PFNS	2	0	< 1.5	
PFOA	14	14		3100 - 12000
PFOS	14	2	< 30	1.6
PFOSA	2	0	< 1.5	
PFPA	14	14		32 - 74
PFPeS	2	2		2.1 - 2.2
PFTeA	14	0	< 1.5 - < 30	
PFTriA	14	0	< 1.5 - < 40	
PFUnA	14	0	< 1.5 - < 20	

Table 5-5
2019 Through 2023 Monitoring Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Z07-MW01	**Latitude (Decimal):**	39.27074814	**Longitude (Decimal):**	-81.66622925
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.4 - < 300	
3:3 FTCA	2	1	< 380	12
4:2 FTS	2	0	< 5.4 - < 300	
5:3 FTCA	2	0	< 34 - < 1900	
6:2 FTS	2	0	< 5.4 - < 300	
7:3 FTCA	2	0	< 34 - < 1900	
8:2 FTS	2	0	< 5.4 - < 300	
9Cl-PF3ONS	2	0	< 5.4 - < 300	
DONA	2	0	< 5.4 - < 300	
HFPO-DA	14	14		28 - 410
NEtFOSA	2	0	< 1.4 - < 75	
NEtFOSAA	2	0	< 1.4 - < 75	
NEtFOSE	2	0	< 750 - < 1400	
NMeFOSA	2	0	< 1.4 - < 75	
NMeFOSAA	2	0	< 1.4 - < 75	
NMeFOSE	2	0	< 14 - < 750	
PFBA	14	13	< 300	22 - 100
PFBS	14	1	< 20 - < 75	4.9
PFDA	14	1	< 20 - < 75	2.1
PFDoA	14	0	< 1.4 - < 75	
PFDoS	2	0	< 1.4 - < 75	
PFDS	14	0	< 1.4 - < 75	
PFECA B	2	0	< 2.7 - < 150	
PFECA-A	2	0	< 2.7 - < 150	
PFECA-F	2	0	< 2.7 - < 150	
PFEESA	2	0	< 2.7 - < 150	
PFHpA	14	14		56 - 270
PFHpS	2	0	< 1.4 - < 75	
PFHxA	14	14		72 - 210
PFHxS	14	4	< 30 - < 75	33 - 55
PFNA	14	1	< 40 - < 75	6.9
PFNS	2	0	< 1.4 - < 75	
PFOA	14	14		890 - 5000
PFOS	14	9	< 30 - < 75	15 - 100
PFOSA	2	0	< 1.4 - < 75	
PFPA	14	11	< 30 - < 150	40 - 100
PFPeS	2	1	< 75	3.3
PFTeA	14	0	< 1.4 - < 75	
PFTriA	14	0	< 1.4 - < 75	
PFUnA	14	0	< 1.4 - < 75	

Included in this table are the results finalized between 8/21/2018 and 12/12/2023.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

ng/L = Nanograms per liter
RL = Reporting limit

Table 5-6
October 2023 Monitoring Wells PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	AE11-MW01	D08-MW01	E13-MW01	L06-MW01	M04-MW02
Field Sample ID	2H23GW-AE11-MW01-A	2H23GW-D08-MW01-A	2H23GW-E13-MW01-A	2H23GW-L06-MW01-A	2H23GW-M04-MW02-A
Sample Date	10/11/2023	10/11/2023	10/11/2023	10/12/2023	10/11/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	< 13	< 6.2	< 9.6 UJ	< 300	< 6.2
3:3 FTCA	< 16	< 7.8	< 12	< 380	2200 J
4:2 FTS	< 13	< 6.2 UJ	< 9.6	< 300	< 6.2 UJ
5:3 FTCA	< 79	< 39	< 60	< 1900	900 J
6:2 FTS	< 13	< 6.2	< 9.6	< 300	< 6.2
7:3 FTCA	< 79	< 39	< 60	< 1900	140 J
8:2 FTS	< 13	< 6.2	< 9.6	< 300	< 6.2
9Cl-PF3ONS	< 13	< 6.2	< 9.6	< 300	< 6.2
DONA	< 13	< 6.2	< 9.6	< 300	< 6.2
HFPO-DA	1500	28	170	< 300	150000
NEtFOSA	< 3.1	< 1.6 UJ	< 2.4	< 75	< 1.6
NEtFOSAA	< 3.1	< 1.6	< 2.4	< 75	< 1.6
NEtFOSE	< 31	< 780	< 24	< 750	< 16
NMeFOSA	< 3.1	< 1.6	< 2.4	< 75	< 1.6
NMeFOSAA	< 3.1	< 1.6	< 2.4	< 75	< 1.6
NMeFOSE	< 31	< 780	< 24	< 750	< 16
PFBA	63	52	44	< 300	2700
PFBS	< 3.1	< 1.6	11	< 75	15
PFDA	< 3.1	< 1.6	< 2.4	< 75	1900
PFDoA	< 3.1	< 1.6 UJ	< 2.4	< 75	13
PFDoS	< 3.1	< 1.6 UJ	< 2.4 UJ	< 75	< 1.6
PFDS	< 3.1	< 1.6 UJ	< 2.4 UJ	< 75	< 1.6
PFECA B	< 6.3	< 3.1	< 4.8	< 150	< 3.1
PFECA-A	< 6.3	< 3.1	< 4.8	< 150	25
PFECA-F	< 6.3	< 3.1	< 4.8	< 150	21
PFEESA	< 6.3	< 3.1	< 4.8	< 150	< 3.1
PFHpA	280	130	64	< 75	1600
PFHpS	< 3.1	< 1.6 UJ	6.6	< 75	5.2
PFHxA	86	87	67	< 75	2600
PFHxS	< 3.1	3.4	530	< 75	88
PFNA	8.6	5.3 J	< 2.4	< 75	5300
PFNS	< 3.1	< 1.6 UJ	< 2.4	< 75	< 1.6
PFOA	16000	12000	3000 J	3500	60000
PFOS	7.8	< 1.6 UJ	< 2.4	110 J	130
PFOSA	< 3.1	< 1.6	< 2.4	< 75	< 1.6
PFPA	38	20	32	< 150	6600
PFPeS	< 3.1	< 1.6	22	< 75	16
PFTeA	< 3.1	< 78	< 2.4 UJ	< 75	< 1.6
PFTriA	< 3.1	< 78	< 2.4	< 75	< 1.6
PFUnA	< 3.1	< 1.6	< 2.4	< 75	63

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

< = Not detected at the reporting limit
J = Reported value may not be accurate or precise
ng/L = Nanograms per liter
UJ = Not detected. Reporting limit may not be accurate or precise

Table 5-6
October 2023 Monitoring Wells PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	N05-MW01	P06-MW02	P08-MW01	T13-MW01	Z07-MW01
Field Sample ID	2H23GW-N05-MW01-A	2H23GW-P06-MW02-A	2H23GW-P08-MW01-A	2H23GW-T13-MW01-A	2H23GW-Z07-MW01-A
Sample Date	10/12/2023	10/12/2023	10/12/2023	10/11/2023	10/12/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	< 320	< 570	< 650	< 6	< 300
3:3 FTCA	< 400	< 710	< 820	< 7.5	< 380
4:2 FTS	< 320	< 570	< 650	< 6 UJ	< 300
5:3 FTCA	< 2000	< 3600	< 4100	< 37	< 1900
6:2 FTS	< 320	< 570	< 650	24	< 300
7:3 FTCA	< 2000	< 3600	< 4100	< 37	< 1900
8:2 FTS	< 320	< 570	< 650	< 6	< 300
9Cl-PF3ONS	< 320	< 570	< 650	< 6	< 300
DONA	< 320	< 570	< 650	< 6	< 300
HFPO-DA	< 320	1700	1500	78	350
NEtFOSA	< 80	< 140	< 160	< 1.5	< 75
NEtFOSAA	< 80	< 140	< 160	< 1.5	< 75
NEtFOSE	< 800	< 1400	< 1600	< 15	< 750
NMeFOSA	< 80	< 140	< 160	< 1.5	< 75
NMeFOSAA	< 80	< 140	< 160	< 1.5	< 75
NMeFOSE	< 800	< 1400	< 1600	< 15	< 750
PFBA	< 320	< 570	< 650	120	< 300
PFBS	< 80	< 140	< 160	4.1	< 75
PFDA	490	1600	350	3.1	< 75
PFDoA	< 80	< 140	< 160	< 1.5	< 75
PFDoS	< 80	< 140	< 160	< 1.5	< 75
PFDS	< 80	< 140	< 160	< 1.5	< 75
PFECA B	< 160	< 290	< 330	< 3	< 150
PFECA-A	< 160	< 290	< 330	< 3	< 150
PFECA-F	< 160	< 290	< 330	< 3	< 150
PFEESA	< 160	< 290	< 330	< 3	< 150
PFHpA	< 80	250	590	150	160
PFHpS	< 80	< 140	< 160	< 1.5	< 75
PFHxA	110	390	380	130	130
PFHxS	< 80	280	640	9.1	< 75
PFNA	< 80	220	< 160	4.8	< 75
PFNS	< 80	< 140	< 160	< 1.5	< 75
PFOA	4400	19000	21000	4700	4900
PFOS	< 80	< 140	< 160	1.6 J	< 75
PFOSA	< 80	< 140	< 160	< 1.5	< 75
PFPA	< 160	< 290	< 330	57	< 150
PFPeS	< 80	< 140	< 160	2.2	< 75
PFTeA	< 80	< 140	< 160	< 1.5	< 75
PFTriA	< 80	< 140	< 160	< 1.5	< 75
PFUnA	< 80	< 140	< 160	< 1.5	< 75

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

< = Not detected at the reporting limit
J = Reported value may not be accurate or precise
ng/L = Nanograms per liter
UJ = Not detected. Reporting limit may not be accurate or precise

Table 5-7
2018 Through 2023 Production Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

AM07-PW01	Latitude (Decimal):	39.27197647	Longitude (Decimal):	-81.6571426
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.6 - < 5.8	
3:3 FTCA	2	0	< 7 - < 7.2	
4:2 FTS	2	0	< 5.6 - < 5.8	
5:3 FTCA	2	0	< 35 - < 36	
6:2 FTS	2	0	< 5.6 - < 5.8	
7:3 FTCA	2	0	< 35 - < 36	
8:2 FTS	2	0	< 5.6 - < 5.8	
9Cl-PF3ONS	2	0	< 5.6 - < 5.8	
DONA	2	0	< 5.6 - < 5.8	
HFPO-DA	13	13		83 - 1300
NEtFOSA	2	0	< 1.4	
NEtFOSAA	2	0	< 1.4	
NEtFOSE	2	0	< 14	
NMeFOSA	2	0	< 1.4	
NMeFOSAA	2	0	< 1.4	
NMeFOSE	2	0	< 14	
PFBA	13	0	< 5.6 - < 20	
PFBS	13	2	< 20	2.7 - 3
PFDA	13	0	< 1.4 - < 20	
PFDoA	13	0	< 1.4 - < 30	
PFDoS	2	0	< 1.4	
PFDS	13	0	< 1.4 - < 20	
PFECA B	2	0	< 2.8 - < 2.9	
PFECA-A	2	0	< 2.8 - < 2.9	
PFECA-F	2	0	< 2.8 - < 2.9	
PFEESA	2	0	< 2.8 - < 2.9	
PFHpA	13	4	< 30	2.8 - 33
PFHpS	2	0	< 1.4	
PFHxA	13	5	< 20	2.9 - 28
PFHxS	13	1	< 1.4 - < 30	1.5
PFNA	13	1	< 1.4 - < 40	1.6
PFNS	2	0	< 1.4	
PFOA	13	13		220 - 950
PFOS	13	2	< 30	3.4 - 4.2
PFOSA	2	0	< 1.4	
PFPA	13	0	< 2.8 - < 30	
PFPeS	2	0	< 1.4	
PFTeA	13	0	< 1.4 - < 30	
PFTriA	13	0	< 1.4 - < 40	
PFUnA	13	0	< 1.4 - < 20	

Table 5-7
2018 Through 2023 Production Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

AO08-PW01	Latitude (Decimal):	39.271862	Longitude (Decimal):	-81.6552
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTS	1	0	< 0.89	
11Cl-PF3OUdS	5	0	< 0.34 - < 1.9	
4:2 FTS	1	0	< 0.89	
6:2 FTS	1	0	< 0.89	
8:2 FTS	1	0	< 1.8	
9Cl-PF3ONS	5	0	< 0.26 - < 1.9	
DONA	4	0	< 1.7 - < 1.9	
HFPO-DA	60	59	< 10	13 - 3800
Hydro-PS Acid	2	0	< 200	
NaDONA	1	0	< 0.26	
NEtFOSA	1	0	< 2.7	
NEtFOSAA	5	0	< 0.89 - < 1.9	
NEtFOSE	1	0	< 1.1	
NMeFOSA	1	0	< 2.7	
NMeFOSAA	5	0	< 0.89 - < 1.9	
NMeFOSE	1	0	< 0.89	
PEPA	2	0	< 200	
PFBA	1	1		5.9
PFBS	5	5		1.8 - 9.9
PFDA	5	0	< 0.8 - < 1.9	
PFDoA	5	0	< 0.44 - < 1.9	
PFDoS	1	0	< 0.27	
PFDS	1	0	< 0.53	
PFECA-G	2	0	< 200	
PFHpA	5	5		8.1 - 51
PFHpS	1	0	< 0.35	
PFHxA	5	5		6.5 - 64
PFHxDA	1	0	< 0.27	
PFHxS	5	5		1.8 - 160
PFMOAA	2	0	< 200	
PFNA	5	5		1.1 - 3.5
PFNS	1	0	< 0.53	
PFO2HxA	2	0	< 200	
PFO3OA	2	0	< 200	
PFO4DA	2	0	< 200	
PFO5DA	2	0	< 200	
PFOA	60	60		170 - 2200
PFODA	1	0	< 0.44	
PFOS	5	5		6.2 - 7.2
PFOSA	1	0	< 0.44	
PFPA	1	1		2
PFPeS	1	0	< 0.35	
PFTeA	5	1	< 0.27 - < 1.9	2
PFTriA	5	1	< 0.35 - < 1.9	2.1
PFUnA	5	0	< 0.35 - < 1.9	
PMPA	2	0	< 200	
PS Acid	2	0	< 200	

Table 5-7
2018 Through 2023 Production Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

AQ09-PW01	Latitude (Decimal):	39.271469	Longitude (Decimal):	-81.6538
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTS	1	0	< 0.85	
11Cl-PF3OUdS	6	0	< 0.34 - < 18	
3:3 FTCA	1	0	< 7.6	
4:2 FTS	2	0	< 0.85 - < 6	
5:3 FTCA	1	0	< 38	
6:2 FTS	2	0	< 0.85 - < 6	
7:3 FTCA	1	0	< 38	
8:2 FTS	2	0	< 1.7 - < 6	
9Cl-PF3ONS	6	0	< 0.26 - < 18	
DONA	5	0	< 1.6 - < 18	
HFPO-DA	78	77	< 10	2.8 - 4500
Hydro-PS Acid	2	0	< 200	
NaDONA	1	0	< 0.26	
NEtFOSA	2	0	< 1.5 - < 2.6	
NEtFOSAA	6	0	< 0.85 - < 18	
NEtFOSE	2	0	< 1 - < 15	
NMeFOSA	2	0	< 1.5 - < 2.6	
NMeFOSAA	6	0	< 0.85 - < 18	
NMeFOSE	2	0	< 0.85 - < 15	
PEPA	2	0	< 200	
PFBA	12	7	< 20	14 - 27
PFBS	16	5	< 18 - < 20	2.7 - 41
PFDA	16	0	< 0.77 - < 20	
PFDoA	16	0	< 0.43 - < 30	
PFDoS	2	0	< 0.26 - < 1.5	
PFDS	12	0	< 0.51 - < 20	
PFECA B	1	0	< 3	
PFECA-A	1	0	< 3	
PFECA-F	1	0	< 3	
PFECA-G	2	0	< 200	
PFEESA	1	0	< 3	
PFHpA	16	13	< 30	30 - 85
PFHpS	2	0	< 0.34 - < 1.5	
PFHxA	16	13	< 20	18 - 61
PFHxDA	1	0	< 0.26	
PFHxS	16	6	< 18 - < 30	7.8 - 54
PFMOAA	2	0	< 200	
PFNA	16	4	< 18 - < 40	1.7 - 3
PFNS	2	0	< 0.51 - < 1.5	
PFO2HxA	2	0	< 200	
PFO3OA	2	0	< 200	
PFO4DA	2	0	< 200	
PFO5DA	2	0	< 200	
PFOA	78	78		140 - 4700
PFODA	1	0	< 0.43	
PFOS	16	4	< 18 - < 30	4.2 - 7.9
PFOSA	2	0	< 0.43 - < 1.5	
PFPA	12	2	< 30	6.3 - 11
PFPeS	2	1	< 1.5	4.7
PFTeA	16	0	< 0.26 - < 30	
PFTriA	16	0	< 0.34 - < 40	
PFUnA	16	0	< 0.34 - < 20	
PMPA	2	0	< 200	
PS Acid	2	0	< 200	

Table 5-7
2018 Through 2023 Production Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

AX13-PW01	**Latitude (Decimal):**	39.26995468	**Longitude (Decimal):**	-81.6482239
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTS	1	0	< 0.88	
11Cl-PF3OUdS	1	0	< 0.35	
4:2 FTS	1	0	< 0.88	
6:2 FTS	1	0	< 0.88	
8:2 FTS	1	0	< 1.8	
9Cl-PF3ONS	1	0	< 0.26	
HFPO-DA	1	1		23
Hydro-PS Acid	2	0	< 200	
NaDONA	1	0	< 0.26	
NEtFOSA	1	0	< 2.6	
NEtFOSAA	1	0	< 0.88	
NEtFOSE	1	0	< 1.1	
NMeFOSA	1	0	< 2.6	
NMeFOSAA	1	0	< 0.88	
NMeFOSE	1	0	< 0.88	
PEPA	2	0	< 200	
PFBA	1	1		5.7
PFBS	1	1		3.3
PFDA	1	0	< 0.79	
PFDoA	1	0	< 0.44	
PFDoS	1	0	< 0.26	
PFDS	1	0	< 0.53	
PFECA-G	2	0	< 200	
PFHpA	1	1		5.6
PFHpS	1	0	< 0.35	
PFHxA	1	1		13
PFHxDA	1	0	< 0.26	
PFHxS	1	1		10
PFMOAA	2	0	< 200	
PFNA	1	1		1
PFNS	1	0	< 0.53	
PFO2HxA	2	0	< 200	
PFO3OA	2	0	< 200	
PFO4DA	2	0	< 200	
PFO5DA	2	0	< 200	
PFOA	1	1		280
PFODA	1	0	< 0.44	
PFOS	1	1		6.2
PFOSA	1	0	< 0.44	
PFPA	1	1		3.4
PFPeS	1	0	< 0.35	
PFTeA	1	0	< 0.26	
PFTriA	1	0	< 0.35	
PFUnA	1	0	< 0.35	
PMPA	2	0	< 200	
PS Acid	2	0	< 200	

Table 5-7
2018 Through 2023 Production Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Gallery Well	Latitude (Decimal):	39.2707634	Longitude (Decimal):	-81.6761475
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTS	1	0	< 0.89	
11Cl-PF3OUdS	2	0	< 0.36 - < 5.5	
3:3 FTCA	1	0	< 6.9	
4:2 FTS	2	0	< 0.89 - < 5.5	
5:3 FTCA	1	0	< 35	
6:2 FTS	2	1	< 5.5	1.3
7:3 FTCA	1	0	< 35	
8:2 FTS	2	0	< 1.8 - < 5.5	
9Cl-PF3ONS	2	0	< 0.27 - < 5.5	
DONA	1	0	< 5.5	
HFPO-DA	9	9		32 - 660
Hydro-PS Acid	2	0	< 200	
NaDONA	1	0	< 0.27	
NEtFOSA	2	0	< 1.4 - < 2.7	
NEtFOSAA	2	0	< 0.89 - < 1.4	
NEtFOSE	2	0	< 1.1 - < 14	
NMeFOSA	2	0	< 1.4 - < 2.7	
NMeFOSAA	2	0	< 0.89 - < 1.4	
NMeFOSE	2	0	< 0.89 - < 14	
PEPA	2	0	< 200	
PFBA	9	4	< 20	18 - 74
PFBS	9	2	< 20	2 - 5.8
PFDA	9	2	< 20	3.6 - 28
PFDoA	9	0	< 0.44 - < 30	
PFDoS	2	0	< 0.27 - < 1.4	
PFDS	9	0	< 0.53 - < 20	
PFECA B	1	0	< 2.8	
PFECA-A	1	0	< 2.8	
PFECA-F	1	0	< 2.8	
PFECA-G	2	0	< 200	
PFEESA	1	0	< 2.8	
PFHpA	9	4	< 30	32 - 130
PFHpS	2	1	< 1.4	0.65
PFHxA	9	4	< 20	34 - 190
PFHxDA	1	0	< 0.27	
PFHxS	9	4	< 30	4.8 - 50
PFMOAA	2	0	< 200	
PFNA	9	2	< 40	3.7 - 44
PFNS	2	0	< 0.53 - < 1.4	
PFO2HxA	2	0	< 200	
PFO3OA	2	0	< 200	
PFO4DA	2	0	< 200	
PFO5DA	2	0	< 200	
PFOA	9	9		120 - 3700
PFODA	1	0	< 0.44	
PFOS	9	2	< 30	3.4 - 10
PFOSA	2	0	< 0.44 - < 1.4	
PFPA	9	2	< 30	16 - 90
PFPeS	2	1	< 1.4	4.6
PFTeA	9	0	< 0.27 - < 30	
PFTriA	9	0	< 0.35 - < 40	
PFUnA	9	0	< 0.35 - < 20	
PMPA	2	0	< 200	
PS Acid	2	0	< 200	

Table 5-7
2018 Through 2023 Production Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Ranney Well (Pre-GAC)	**Latitude (Decimal):**	39.2716484	**Longitude (Decimal):**	-81.6690598
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTS	1	0	< 8.7	
11Cl-PF3OUdS	1	0	< 0.35	
4:2 FTS	1	0	< 8.7	
6:2 FTS	3	3		79 - 130
8:2 FTS	1	0	< 17	
9Cl-PF3ONS	1	0	< 0.26	
HFPO-DA	18	18		480 - 26000
Hydro-PS Acid	2	0	< 200	
NaDONA	1	0	< 0.26	
NEtFOSA	1	0	< 26	
NEtFOSAA	1	0	< 8.7	
NEtFOSE	1	0	< 10	
NMeFOSA	1	0	< 26	
NMeFOSAA	1	0	< 8.7	
NMeFOSE	1	0	< 8.7	
PEPA	2	0	< 200	
PFBA	10	8	< 20	270 - 470
PFBS	12	3	< 20	8 - 13
PFDA	12	11	< 20	30 - 460
PFDoA	10	0	< 4.3 - < 30	
PFDoS	1	0	< 2.6	
PFDS	10	0	< 5.2 - < 20	
PFECA-G	2	0	< 200	
PFHpA	12	10	< 30	680 - 1400
PFHpS	1	0	< 3.5	
PFHxA	12	10	< 20	1000 - 1700
PFHxDA	3	0	< 2.6 - < 8.5	
PFHxS	12	10	< 30	46 - 70
PFMOAA	2	0	< 200	
PFNA	12	10	< 40	140 - 330
PFNS	1	0	< 5.2	
PFO2HxA	2	0	< 200	
PFO3OA	2	0	< 200	
PFO4DA	2	0	< 200	
PFO5DA	2	0	< 200	
PFOA	18	18		530 - 53000
PFODA	3	0	< 4.1 - < 4.4	
PFOS	12	10	< 30	30 - 44
PFOSA	1	0	< 4.3	
PFPA	12	10	< 30	260 - 480
PFPeS	3	3		6.1 - 11
PFTeA	12	0	< 2.6 - < 30	
PFTriA	12	0	< 3.5 - < 40	
PFUnA	12	0	< 3.5 - < 20	
PMPA	2	0	< 200	
PS Acid	2	0	< 200	

Table 5-7
2018 Through 2023 Production Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Ranney Well (Post-GAC)	Latitude (Decimal):	39.2716484	Longitude (Decimal):	-81.6690598
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 5.6 - < 6	
3:3 FTCA	2	0	< 7 - < 7.5	
4:2 FTS	2	0	< 5.6 - < 6	
5:3 FTCA	2	0	< 35 - < 38	
6:2 FTS	2	0	< 5.6 - < 6	
7:3 FTCA	2	0	< 35 - < 38	
8:2 FTS	2	0	< 5.6 - < 6	
9Cl-PF3ONS	2	0	< 5.6 - < 6	
DONA	2	0	< 5.6 - < 6	
HFPO-DA	4	2	< 5.6 - < 6	19 - 56
NEtFOSA	2	0	< 1.4 - < 1.5	
NEtFOSAA	2	0	< 1.4 - < 1.5	
NEtFOSE	2	0	< 14 - < 15	
NMeFOSA	2	0	< 1.4 - < 1.5	
NMeFOSAA	2	0	< 1.4 - < 1.5	
NMeFOSE	2	0	< 14 - < 15	
PFBA	4	2	< 20	6.1 - 150
PFBS	4	0	< 1.4 - < 20	
PFDA	4	0	< 1.4 - < 20	
PFDoA	4	0	< 1.4 - < 30	
PFDoS	2	0	< 1.4 - < 1.5	
PFDS	4	0	< 1.4 - < 20	
PFECA B	2	0	< 2.8 - < 3	
PFECA-A	2	0	< 2.8 - < 3	
PFECA-F	2	0	< 2.8 - < 3	
PFEESA	2	0	< 2.8 - < 3	
PFHpA	4	0	< 1.4 - < 30	
PFHpS	2	0	< 1.4 - < 1.5	
PFHxA	4	0	< 1.4 - < 20	
PFHxS	4	0	< 1.4 - < 30	
PFNA	4	0	< 1.4 - < 40	
PFNS	2	0	< 1.4 - < 1.5	
PFOA	4	3	< 1.5	4.1 - 200
PFOS	4	0	< 1.4 - < 30	
PFOSA	2	0	< 1.4 - < 1.5	
PFPA	4	0	< 2.8 - < 30	
PFPeS	2	0	< 1.4 - < 1.5	
PFTeA	4	0	< 1.4 - < 30	
PFTriA	4	0	< 1.4 - < 40	
PFUnA	4	0	< 1.4 - < 20	

Table 5-7
2018 Through 2023 Production Wells PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

West Field Well Header 1	Latitude (Decimal):	39.26379	Longitude (Decimal):	-81.675
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTS	1	0	< 0.87	
11Cl-PF3OUdS	2	0	< 0.35 - < 5.6	
3:3 FTCA	1	0	< 6.9	
4:2 FTS	2	0	< 0.87 - < 5.6	
5:3 FTCA	1	0	< 35	
6:2 FTS	2	2		2.4 - 7.6
7:3 FTCA	1	0	< 35	
8:2 FTS	2	0	< 1.7 - < 5.6	
9Cl-PF3ONS	2	0	< 0.26 - < 5.6	
DONA	1	0	< 5.6	
HFPO-DA	12	12		150 - 450
Hydro-PS Acid	2	0	< 200	
NaDONA	1	0	< 0.26	
NEtFOSA	2	0	< 1.4 - < 2.6	
NEtFOSAA	2	0	< 0.87 - < 1.4	
NEtFOSE	2	0	< 1 - < 14	
NMeFOSA	2	0	< 1.4 - < 2.6	
NMeFOSAA	2	0	< 0.87 - < 1.4	
NMeFOSE	2	0	< 0.87 - < 14	
PEPA	2	0	< 200	
PFBA	12	12		39 - 66
PFBS	12	5	< 20	11 - 25
PFDA	12	0	< 0.79 - < 20	
PFDoA	12	0	< 0.44 - < 30	
PFDoS	2	0	< 0.26 - < 1.4	
PFDS	12	0	< 0.52 - < 20	
PFECA B	1	0	< 2.8	
PFECA-A	1	0	< 2.8	
PFECA-F	1	0	< 2.8	
PFECA-G	2	0	< 200	
PFEESA	1	0	< 2.8	
PFHpA	12	12		85 - 220
PFHpS	2	2		2.3 - 7.2
PFHxA	12	12		69 - 160
PFHxDA	1	0	< 0.26	
PFHxS	12	12		120 - 270
PFMOAA	2	0	< 200	
PFNA	12	2	< 40	2.5 - 8.2
PFNS	2	0	< 0.52 - < 1.4	
PFO2HxA	2	0	< 200	
PFO3OA	2	0	< 200	
PFO4DA	2	0	< 200	
PFO5DA	2	0	< 200	
PFOA	12	12		3500 - 9600
PFODA	1	0	< 0.44	
PFOS	12	9	< 30	22 - 76
PFOSA	2	0	< 0.44 - < 1.4	
PFPA	12	12		33 - 100
PFPeS	2	2		13 - 22
PFTeA	12	0	< 0.26 - < 30	
PFTriA	12	0	< 0.35 - < 40	
PFUnA	12	0	< 0.35 - < 20	
PMPA	2	0	< 200	
PS Acid	2	0	< 200	

Included in this table are the results finalized between 8/21/2018 and 12/12/2023.
Ranney Well granular activated carbon (GAC) treatment system installation was completed between September 2021 and November 2021. Samples collected after installation identified as “post-GAC” are treated water, summarized from 12/1/2021 to 12/12/2023. Samples collected prior to installation identified as "pre-GAC" are untreated water, summarized from 8/21/2018 to 8/30/2021.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

ng/L = Nanograms per liter
RL = Reporting limit

Table 5-8
Recent Production Wells PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	AM07-PW01	AO08-PW01	AQ09-PW01	AX13-PW01	GALLERY WELL	RANNEY WELL PRE-GAC	RANNEY WELL POST-GAC	WEST FIELD WELL HEADER 1	EAST WELL WATER
Field Sample ID	2H23DW-AM07-PW01-A	62123-WELL 331	62123-WELL 332	EAST_FIELD_WELL_335-0918	1H23GW-GALLERY WELL	1H21GW-RANNEY WELL-A	2H23GW-RANNEY WELL-A	1H23GW-W FIELD WELL HEADER1	ESTFLDWHEADER1-D1-A-1223
Sample Date	10/10/2023	6/21/2023	6/21/2023	9/20/2018	5/8/2023	3/23/2021	10/10/2023	5/8/2023	12/12/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	FS
10:2 FTS	--	--	--	< 0.88	--	--	--	--	--
11Cl-PF3OUdS	< 5.8	< 1.9	< 1.8	< 0.35	< 5.5	--	< 6	< 5.6	< 7.6
3:3 FTCA	< 7.2	--	--	--	< 6.9	--	< 7.5	< 6.9	< 9.5
4:2 FTS	< 5.8	--	--	< 0.88	< 5.5	--	< 6	< 5.6	< 7.6
5:3 FTCA	< 36	--	--	--	< 35	--	< 38	< 35	< 47
6:2 FTS	< 5.8	--	--	< 0.88	< 5.5	--	< 6	7.6	< 7.6
7:3 FTCA	< 36	--	--	--	< 35	--	< 38	< 35	< 47
8:2 FTS	< 5.8	--	--	< 1.8	< 5.5	--	< 6	< 5.6	< 7.6
9Cl-PF3ONS	< 5.8	< 1.9	< 1.8	< 0.26	< 5.5	--	< 6	< 5.6	< 7.6
DONA	< 5.8	< 1.9	< 1.8	--	< 5.5	--	< 6	< 5.6	< 7.6
HFPO-DA	83	2200	1500	23	280	13000 J	< 6	300	590
Hydro-PS Acid	--	--	--	< 200	--	--	--	--	--
NaDONA	--	--	--	< 0.26	--	--	--	--	--
NEtFOSA	< 1.4	--	--	< 2.6	< 1.4	--	< 1.5	< 1.4	< 1.9
NEtFOSAA	< 1.4	< 1.9	< 1.8	< 0.88	< 1.4	--	< 1.5	< 1.4	< 1.9
NEtFOSE	< 14	--	--	< 1.1	< 14	--	< 15	< 14	< 19
NMeFOSA	< 1.4	--	--	< 2.6	< 1.4	--	< 1.5	< 1.4	< 1.9
NMeFOSAA	< 1.4	< 1.9	< 1.8	< 0.88	< 1.4	--	< 1.5	< 1.4	< 3.8
NMeFOSE	< 14	--	--	< 0.88	< 14	--	< 15	< 14	< 19
PEPA	--	--	--	< 200	--	--	--	--	--
PFBA	< 5.8	--	--	5.7	74	420	150	39	9.6
PFBS	2.7	9.1	3.6	3.3	2	< 20	< 1.5	11	3.9
PFDA	< 1.4	< 1.9	< 1.8	< 0.79	28	450	< 1.5	< 1.4	< 1.9
PFDoA	< 1.4	< 1.9	< 1.8	< 0.44	< 1.4	< 30	< 1.5	< 1.4	< 1.9
PFDoS	< 1.4	--	--	< 0.26	< 1.4	--	< 1.5	< 1.4	< 1.9
PFDS	< 1.4	--	--	< 0.53	< 1.4	< 20	< 1.5	< 1.4	< 1.9
PFECA B	< 2.9	--	--	--	< 2.8	--	< 3	< 2.8	< 3.8
PFECA-A	< 2.9	--	--	--	< 2.8	--	< 3	< 2.8	< 3.8
PFECA-F	< 2.9	--	--	--	< 2.8	--	< 3	< 2.8	< 3.8
PFECA-G	--	--	--	< 200	--	--	--	--	--
PFEESA	< 2.9	--	--	--	< 2.8	--	< 3	< 2.8	< 3.8
PFHpA	2.8	42	63	5.6	130	820 J	< 1.5	85	10
PFHpS	< 1.4	--	--	< 0.35	< 1.4	--	< 1.5	7.2	< 1.9
PFHxA	2.9	56	40	13	190	1100	< 1.5	69	13
PFHxDA	--	--	--	< 0.26	--	--	--	--	--
PFHxS	< 1.4	150	12	10	4.8	65	< 1.5	140	22
PFMOAA	--	--	--	< 200	--	--	--	--	--
PFNA	< 1.4	3.5	2.5	1 J	44	330	< 1.5	8.2	< 1.9
PFNS	< 1.4	--	--	< 0.53	< 1.4	--	< 1.5	< 1.4	< 1.9
PFO2HxA	--	--	--	< 200	--	--	--	--	--
PFO3OA	--	--	--	< 200	--	--	--	--	--
PFO4DA	--	--	--	< 200	--	--	--	--	--
PFO5DA	--	--	--	< 200	--	--	--	--	--
PFOA	220	1200	2300	280	3700	36000	< 1.5	9600	510
PFODA	--	--	--	< 0.44	--	--	--	--	--
PFOS	3.4	7	6.1	6.2	3.4	39 J	< 1.5	41 J	4.1
PFOSA	< 1.4	--	--	< 0.44	< 1.4	--	< 1.5	< 1.4	< 1.9
PFPA	< 2.9	--	--	3.4 J	90	380	< 3	36	--
PFPeS	< 1.4	--	--	< 0.35	< 1.4	--	< 1.5	13	2.8
PFTeA	< 1.4	2	< 1.8	< 0.26	< 1.4	< 30	< 1.5	< 1.4	< 1.9
PFTriA	< 1.4	2.1	< 1.8	< 0.35	< 1.4	< 40	< 1.5	< 1.4	< 1.9
PFUnA	< 1.4	< 1.9	< 1.8	< 0.35	< 1.4	< 20	< 1.5	< 1.4	< 1.9
PMPA	--	--	--	< 200	--	--	--	--	--
PS Acid	--	--	--	< 200	--	--	--	--	--

Ranney Well granular activated carbon (GAC) treatment system installation was completed between September 2021 and November 2021. Samples collected after installation identified as “post-GAC” are treated water. Samples collected prior to installation identified as "pre-GAC" are untreated
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

< = Not detected at the reporting limit
J = Reported value may not be accurate or precise
ng/L = Nanograms per liter

Table 5-9
2019 Through 2023 River Intake PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

River Intake	Latitude (Decimal):	39.27168334	Longitude (Decimal):	-81.66813898
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	20	0	< 1.6 - < 8.6	
3:3 FTCA	5	0	< 7.1 - < 11	
4:2 FTS	5	0	< 5.7 - < 8.6	
5:3 FTCA	5	0	< 36 - < 54	
6:2 FTS	5	0	< 5.7 - < 8.6	
7:3 FTCA	5	0	< 36 - < 54	
8:2 FTS	5	0	< 5.7 - < 8.6	
9Cl-PF3ONS	20	0	< 0.9 - < 8.6	
DONA	20	0	< 0.9 - < 8.6	
HFPO-DA	36	15	< 2.5 - < 10	3.2 - 89
NEtFOSA	5	0	< 1.4 - < 2.1	
NEtFOSAA	20	0	< 1.4 - < 3	
NEtFOSE	5	0	< 14 - < 21	
NMeFOSA	5	0	< 1.4 - < 2.1	
NMeFOSAA	20	0	< 1.4 - < 3.54	
NMeFOSE	5	0	< 14 - < 21	
PFBA	27	0	< 4.1 - < 20	
PFBS	32	13	< 1.4 - < 20	1 - 6.6
PFDA	32	0	< 1.4 - < 20	
PFDoA	32	0	< 1.4 - < 30	
PFDoS	5	0	< 1.4 - < 2.1	
PFDS	17	0	< 1.4 - < 20	
PFECA B	5	0	< 2.8 - < 4.3	
PFECA-A	5	0	< 2.8 - < 4.3	
PFECA-F	5	0	< 2.8 - < 4.3	
PFEESA	5	0	< 2.8 - < 4.3	
PFHpA	32	2	< 1.4 - < 30	1.1 - 4.4
PFHpS	5	0	< 1.4 - < 2.1	
PFHxA	32	10	< 1.4 - < 20	1.8 - 7.5
PFHxS	32	0	< 1.4 - < 30	
PFNA	32	1	< 1.4 - < 40	1.8
PFNS	5	0	< 1.4 - < 2.1	
PFOA	36	26	< 5 - < 20	2.57 - 210
PFOS	32	12	< 1.6 - < 30	1.4 - 3.2
PFOSA	5	0	< 1.4 - < 2.1	
PFPA	27	6	< 1.6 - < 30	1.8 - 3.68
PFPeS	5	0	< 1.4 - < 2.1	
PFTeA	32	0	< 0.9 - < 200	
PFTriA	32	0	< 0.9 - < 200	
PFUnA	32	0	< 1.4 - < 20	

Included in this table are the results finalized between 8/21/2018 and 12/12/2023.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

ng/L = Nanograms per liter
RL = Reporting limit

Table 5-10
October 2023 River Intake PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	River Intake
Field Sample ID	2H23SW-RIVER INTAKE-A
Sample Date	10/10/2023
Compound	Report Result (ng/L)
11Cl-PF3OUdS	< 8.6
3:3 FTCA	< 11
4:2 FTS	< 8.6
5:3 FTCA	< 54
6:2 FTS	< 8.6
7:3 FTCA	< 54
8:2 FTS	< 8.6
9Cl-PF3ONS	< 8.6
DONA	< 8.6
HFPO-DA	< 8.6
NEtFOSA	< 2.1
NEtFOSAA	< 2.1
NEtFOSE	< 21
NMeFOSA	< 2.1
NMeFOSAA	< 2.1
NMeFOSE	< 21
PFBA	< 8.6
PFBS	4.8
PFDA	< 2.1
PFDoA	< 2.1
PFDoS	< 2.1
PFDS	< 2.1
PFECA B	< 4.3
PFECA-A	< 4.3
PFECA-F	< 4.3
PFEESA	< 4.3
PFHpA	< 2.1
PFHpS	< 2.1
PFHxA	2.6
PFHxS	< 2.1
PFNA	< 2.1
PFNS	< 2.1
PFOA	3.9
PFOS	2.2
PFOSA	< 2.1
PFPA	< 4.3
PFPeS	< 2.1
PFTeA	< 2.1
PFTriA	< 2.1
PFUnA	< 2.1

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

< = Not detected at the reporting limit
ng/L = Nanograms per liter

Table 5-11
2018 Through 2023 Process Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 001	Latitude (Decimal):	39.27256012	Longitude (Decimal):	-81.6637115
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTCA	1	0	< 20	
10:2 FTS	3	0	< 0.89 - < 50	
10:2 FTUCA	1	0	< 20	
11Cl-PF3OUdS	38	0	< 0.36 - < 80	
3:3 FTCA	11	0	< 8.33 - < 100	
4:2 FTS	13	0	< 0.89 - < 80	
5:3 FTCA	11	0	< 20 - < 500	
6:2 FTCA	1	0	< 20	
6:2 FTS	13	1	< 1.9 - < 80	2.6
6:2 FTUCA	1	0	< 20	
7:3 FTCA	11	0	< 20 - < 500	
8:2 FTCA	1	0	< 20	
8:2 FTS	13	0	< 1.8 - < 80	
8:2 FTUCA	1	0	< 20	
9Cl-PF3ONS	38	0	< 0.27 - < 80	
DONA	36	0	< 0.86 - < 80	
EVE Acid	1	0	< 100	
FBSA	1	0	< 20	
FBSEE	1	0	< 20	
FHXSA	1	0	< 20	
HFPO-DA	98	96	< 2.9 - < 3.3	3.2 - 15000
Hydro-EVE Acid	1	0	< 20	
Hydrolyzed PSDA	1	0	< 20	
Hydro-PS Acid	5	0	< 20 - < 200	
MTP	1	0	< 50	
NaDONA	2	0	< 0.27 - < 1	
NEtFOSA	13	0	< 1.67 - < 50	
NEtFOSAA	38	0	< 0.89 - < 30	
NEtFOSE	13	0	< 1.1 - < 200	
NMeFOSA	13	0	< 1.67 - < 30	
NMeFOSAA	38	0	< 0.89 - < 40	
NMeFOSE	13	0	< 0.89 - < 200	
NVHOS, Acid Form	1	0	< 20	
PEPA	5	0	< 20 - < 200	
PFBA	33	27	< 50 - < 80	6.7 - 210
PFBS	38	35	< 1.8 - < 20	1.7 - 13
PFDA	38	25	< 1.6 - < 20	1.7 - 230
PFDoA	38	19	< 1.6 - < 20	1.6 - 71
PFDoS	13	0	< 0.27 - < 30	
PFDS	13	0	< 0.54 - < 20	
PFECA B	11	0	< 3.33 - < 40	
PFECA-A	11	0	< 3.33 - < 40	
PFECA-F	11	0	< 3.33 - < 40	
PFECA-G	5	0	< 20 - < 200	
PFECHS	1	0	< 20	
PFEESA	11	0	< 3.33 - < 40	
PFHpA	38	38		7.9 - 610
PFHpS	13	1	< 0.36 - < 20	2.2
PFHxA	38	38		10 - 740
PFHxDA	3	1	< 0.27 - < 30	12
PFHxS	38	38		3.3 - 86
PFMOAA	5	0	< 20 - < 200	
PFNA	38	30	< 1.6 - < 20	1.7 - 70
PFNS	13	0	< 0.54 - < 20	
PFO2HxA	5	0	< 20 - < 200	
PFO3OA	5	0	< 20 - < 200	
PFO4DA	5	0	< 20 - < 200	
PFO5DA	5	0	< 50 - < 200	
PFOA	82	82		150 - 64000
PFODA	3	1	< 0.45 - < 30	4.4
PFOS	38	37	< 20	2.3 - 170
PFOSA	13	0	< 0.45 - < 20	
PFPA	33	32	< 40	3.7 - 200
PFPeS	13	11	< 20	1.6 - 13
PFPrS	1	0	< 20	
PFTeA	38	8	< 1.6 - < 20	1.4 - 24
PFTriA	38	11	< 1.6 - < 20	1.7 - 13
PFUnA	38	17	< 1.6 - < 20	1.6 - 41
PMPA	5	0	< 20 - < 200	
PPF Acid	1	1		85
PS Acid	5	0	< 100 - < 200	
R-EVE	1	0	< 20	
R-PSDA	1	0	< 20	
R-PSDCA	1	0	< 20	

Table 5-11
2018 Through 2023 Process Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 002 (PRE-RANNEY GAC)	Latitude (Decimal): 39.2719421		Longitude (Decimal): -81.670189	
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTS	2	0	< 2.5 - < 8	
11Cl-PF3OUdS	11	0	< 0.38 - < 2	
4:2 FTS	2	0	< 2.5 - < 2.7	
6:2 FTS	2	2		19 - 22
8:2 FTS	2	0	< 5 - < 5.3	
9Cl-PF3ONS	11	0	< 0.29 - < 2	
DONA	9	0	< 0.95 - < 2	
HFPO-DA	176	175	< 10	180 - 255000
Hydro-PS Acid	4	0	< 200	
NaDONA	2	0	< 0.29 - < 0.93	
NEtFOSA	2	0	< 7.5 - < 8	
NEtFOSAA	11	0	< 2.5 - < 3	
NEtFOSE	2	0	< 2.7 - < 3	
NMeFOSA	2	0	< 7.5 - < 8	
NMeFOSAA	11	0	< 1.7 - < 2.8	
NMeFOSE	2	0	< 2.5 - < 2.7	
PEPA	4	0	< 200	
PFBA	6	6		65 - 930
PFBS	11	11		3.4 - 8.3
PFDA	11	11		17 - 86
PFDoA	11	2	< 1.2 - < 2	4.7 - 12
PFDoS	2	0	< 0.75 - < 0.89	
PFDS	2	0	< 1.5 - < 1.8	
PFECA-G	4	0	< 200	
PFHpA	11	11		40 - 210
PFHpS	2	0	< 1 - < 1.8	
PFHxA	11	11		33 - 370
PFHxDA	2	1	< 0.75	4.3
PFHxS	11	11		3.8 - 29
PFMOAA	4	2	< 200	280 - 290
PFNA	11	11		24 - 77
PFNS	2	0	< 1.5 - < 1.8	
PFO2HxA	4	0	< 200	
PFO3OA	4	0	< 200	
PFO4DA	4	0	< 200	
PFO5DA	4	0	< 200	
PFOA	163	163		250 - 255000
PFODA	2	1	< 1.2	2.3
PFOS	11	11		3.1 - 15
PFOSA	2	0	< 1.2 - < 2.7	
PFPA	6	6		55 - 100
PFPeS	2	2		2.9 - 3.6
PFTeA	11	2	< 0.75 - < 2	3.6 - 7.4
PFTriA	11	7	< 1 - < 1.8	2.9 - 12
PFUnA	11	2	< 1 - < 2	6.9 - 21
PMPA	4	0	< 200	
PS Acid	4	0	< 200	

Table 5-11
2018 Through 2023 Process Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 002 (POST-RANNEY GAC)	Latitude (Decimal):	39.2719421	Longitude (Decimal):	-81.670189
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTCA	1	0	< 1.7	
10:2 FTS	1	0	< 4.3	
10:2 FTUCA	1	0	< 1.7	
11Cl-PF3OUdS	57	0	< 1.6 - < 7.97	
3:3 FTCA	42	0	< 1.7 - < 84.9	
4:2 FTS	42	0	< 1.7 - < 67.9	
5:3 FTCA	42	0	< 1.7 - < 425	
6:2 FTCA	1	0	< 1.7	
6:2 FTS	42	0	< 4.3 - < 67.9	
6:2 FTUCA	1	0	< 1.7	
7:3 FTCA	42	0	< 1.7 - < 425	
8:2 FTCA	1	0	< 1.7	
8:2 FTS	42	0	< 2.6 - < 67.9	
8:2 FTUCA	1	0	< 1.7	
9Cl-PF3ONS	57	0	< 1.6 - < 7.97	
DONA	57	0	< 1.6 - < 7.97	
EVE Acid	1	0	< 8.7	
FBSA	1	0	< 1.7	
FBSEE	1	0	< 1.7	
FHXSA	1	0	< 1.7	
HFPO-DA	138	138		230 - 74000
Hydro-EVE Acid	1	0	< 1.7	
Hydrolyzed PSDA	1	0	< 1.7	
Hydro-PS Acid	1	0	< 1.7	
MTP	1	0	< 4.3	
NEtFOSA	42	0	< 1.66 - < 4.3	
NEtFOSAA	57	0	< 1.66 - < 2.6	
NEtFOSE	42	0	< 2.6 - < 19.9	
NMeFOSA	42	0	< 1.66 - < 2.6	
NMeFOSAA	57	0	< 1.6 - < 34	
NMeFOSE	42	0	< 2.6 - < 19.9	
NVHOS, Acid Form	1	0	< 1.7	
PEPA	1	1		7.4
PFBA	57	56	< 800	7.4 - 49.9
PFBS	57	55	< 17 - < 17.2	3.2 - 8.72
PFDA	57	16	< 1.6 - < 17	1.9 - 8.53
PFDoA	57	8	< 1.6 - < 17	1.74 - 8.07
PFDoS	42	0	< 1.66 - < 2.6	
PFDS	42	0	< 1.66 - < 17	
PFECA B	42	0	< 1.7 - < 34	
PFECA-A	42	0	< 1.7 - < 34	
PFECA-F	42	0	< 1.7 - < 34	
PFECA-G	1	0	< 1.7	
PFECHS	1	0	< 1.7	
PFEESA	42	0	< 1.7 - < 34	
PFHpA	57	56	< 17	6 - 30
PFHpS	42	0	< 1.66 - < 17	
PFHxA	57	56	< 17	6.4 - 56.2
PFHxDA	1	0	< 2.6	
PFHxS	57	56	< 17	4.4 - 23.6
PFMOAA	1	1		3.3
PFNA	57	47	< 1.68 - < 17	1.7 - 21.1
PFNS	42	0	< 1.66 - < 17	
PFO2HxA	1	0	< 1.7	
PFO3OA	1	0	< 1.7	
PFO4DA	1	0	< 1.7	
PFO5DA	1	0	< 4.3	
PFOA	117	117		230 - 13000
PFODA	1	0	< 2.6	
PFOS	57	56	< 17	3.3 - 7.59
PFOSA	42	0	< 1.66 - < 17	
PFPA	57	54	< 3.39 - < 34	3.2 - 75.7
PFPeS	42	18	< 1.66 - < 17	1.72 - 2.98
PFPrS	1	0	< 1.7	
PFTeA	57	7	< 1.6 - < 1.97	1.7 - 6.24
PFTriA	57	12	< 1.6 - < 1.97	1.84 - 24.3
PFUnA	57	22	< 1.6 - < 1.97	1.71 - 16
PMPA	1	1		2
PPF Acid	1	1		450
PS Acid	1	0	< 8.7	
R-EVE	1	0	< 1.7	
R-PSDA	1	0	< 1.7	
R-PSDCA	1	0	< 1.7	

Table 5-11
2018 Through 2023 Process Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 003	Latitude (Decimal):	39.27219009	Longitude (Decimal):	-81.6686172
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTCA	1	0	< 1.8	
10:2 FTS	3	0	< 4.4 - < 8.7	
10:2 FTUCA	1	0	< 1.8	
11Cl-PF3OUdS	38	0	< 0.65 - < 7.94	
3:3 FTCA	11	0	< 1.8 - < 9.92	
4:2 FTS	13	0	< 1.8 - < 7.94	
5:3 FTCA	11	0	< 1.8 - < 49.6	
6:2 FTCA	1	0	< 1.8	
6:2 FTS	31	7	< 4.4 - < 200	4.7 - 76
6:2 FTUCA	1	0	< 1.8	
7:3 FTCA	11	0	< 1.8 - < 49.6	
8:2 FTCA	1	0	< 1.8	
8:2 FTS	13	0	< 2.7 - < 10	
8:2 FTUCA	1	0	< 1.8	
9Cl-PF3ONS	38	0	< 0.49 - < 7.94	
DONA	36	0	< 0.93 - < 7.94	
EVE Acid	1	0	< 8.9	
FBSA	1	0	< 1.8	
FBSEE	1	0	< 1.8	
FHXSA	1	0	< 1.8	
HFPO-DA	124	124		64 - 31000
Hydro-EVE Acid	1	0	< 1.8	
Hydrolyzed PSDA	1	0	< 1.8	
Hydro-PS Acid	5	0	< 1.8 - < 200	
MTP	1	0	< 4.4	
NaDONA	2	0	< 0.49 - < 0.94	
NEtFOSA	13	0	< 1.71 - < 15	
NEtFOSAA	38	0	< 1.71 - < 5	
NEtFOSE	13	0	< 2.7 - < 19.8	
NMeFOSA	13	0	< 1.71 - < 15	
NMeFOSAA	38	0	< 1.6 - < 5	
NMeFOSE	13	0	< 2.7 - < 19.8	
NVHOS, Acid Form	1	0	< 1.8	
PEPA	5	0	< 1.8 - < 200	
PFBA	33	17	< 4.1 - < 7.06	4.2 - 61
PFBS	56	36	< 1.7 - < 20	1.6 - 7.3
PFDA	56	40	< 1.6 - < 2	1.7 - 230
PFDoA	38	12	< 1.6 - < 2.5	2 - 24
PFDoS	13	0	< 0.97 - < 2.7	
PFDS	13	0	< 1.71 - < 3	
PFECA B	11	0	< 1.8 - < 3.97	
PFECA-A	11	0	< 1.8 - < 3.97	
PFECA-F	11	0	< 1.8 - < 3.97	
PFECA-G	5	0	< 1.8 - < 200	
PFECHS	1	0	< 1.8	
PFEESA	11	0	< 1.8 - < 3.97	
PFHpA	56	56		2.1 - 600
PFHpS	13	0	< 1.71 - < 2	
PFHxA	56	56		3.8 - 760
PFHxDA	21	2	< 1.5 - < 88	1.8 - 3.6
PFHxS	56	55	< 1.7	1.9 - 40
PFMOAA	5	1	< 200	3.6
PFNA	56	49	< 1.7 - < 1.8	1.7 - 170
PFNS	13	0	< 1.71 - < 3	
PFO2HxA	5	0	< 1.8 - < 200	
PFO3OA	5	0	< 1.8 - < 200	
PFO4DA	5	0	< 1.8 - < 200	
PFO5DA	5	0	< 4.4 - < 200	
PFOA	124	124		72 - 40000
PFODA	21	1	< 1.9 - < 45	2.1
PFOS	56	48	< 1.7 - < 53	1.8 - 30
PFOSA	13	0	< 1.71 - < 2.9	
PFPA	51	46	< 1.7 - < 3.53	2.4 - 200
PFPeS	31	5	< 1.71 - < 30	2.9 - 6.3
PFPrS	1	0	< 1.8	
PFTeA	56	8	< 0.93 - < 29	2.6 - 5.4
PFTriA	56	15	< 1.6 - < 130	1.9 - 11
PFUnA	56	18	< 1.6 - < 110	1.8 - 14
PMPA	5	0	< 1.8 - < 200	
PPF Acid	1	1		37
PS Acid	5	0	< 8.9 - < 200	
R-EVE	1	0	< 1.8	
R-PSDA	1	0	< 1.8	
R-PSDCA	1	0	< 1.8	

Table 5-11
2018 Through 2023 Process Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 005	Latitude (Decimal):	39.27052689	Longitude (Decimal):	-81.6768799
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTCA	1	0	< 1.8	
10:2 FTS	3	0	< 2.5 - < 8.2	
10:2 FTUCA	1	0	< 1.8	
11Cl-PF3OUdS	69	0	< 0.64 - < 8.04	
3:3 FTCA	42	0	< 1.8 - < 10.1	
4:2 FTS	44	0	< 1.8 - < 8.04	
5:3 FTCA	42	0	< 1.8 - < 442	
6:2 FTCA	1	0	< 1.8	
6:2 FTS	44	9	< 1.8 - < 8.04	3.8 - 33.9
6:2 FTUCA	1	0	< 1.8	
7:3 FTCA	42	0	< 1.8 - < 442	
8:2 FTCA	1	0	< 1.8	
8:2 FTS	44	0	< 2.6 - < 8.04	
8:2 FTUCA	1	0	< 1.8	
9Cl-PF3ONS	69	0	< 0.48 - < 8.04	
DONA	67	0	< 0.92 - < 8.04	
EVE Acid	1	0	< 8.8	
FBSA	1	0	< 1.8	
FBSEE	1	0	< 1.8	
FHXSA	1	0	< 1.8	
HFPO-DA	298	298		41.3 - 255000
Hydro-EVE Acid	1	0	< 1.8	
Hydrolyzed PSDA	1	0	< 1.8	
Hydro-PS Acid	5	0	< 1.8 - < 200	
MTP	1	0	< 4.4	
NaDONA	2	0	< 0.48 - < 0.95	
NEtFOSA	44	0	< 1.65 - < 17.3	
NEtFOSAA	69	0	< 1.65 - < 3	
NEtFOSE	44	0	< 2.6 - < 20.1	
NMeFOSA	44	0	< 1.65 - < 200	
NMeFOSAA	69	0	< 1.6 - < 4.02	
NMeFOSE	44	0	< 2.5 - < 20.1	
NVHOS, Acid Form	1	0	< 1.8	
PEPA	5	0	< 1.8 - < 200	
PFBA	64	58	< 6.74 - < 800	7.4 - 318
PFBS	69	51	< 1.69 - < 2	1.4 - 10.4
PFDA	69	58	< 1.69 - < 1.86	1.7 - 22
PFDoA	69	37	< 1.6 - < 1.86	1.75 - 9.22
PFDoS	44	0	< 0.74 - < 2.6	
PFDS	44	0	< 1.5 - < 2.01	
PFECA B	42	0	< 1.8 - < 35.3	
PFECA-A	42	0	< 1.8 - < 4.02	
PFECA-F	42	1	< 1.8 - < 4.02	16.9
PFECA-G	5	0	< 1.8 - < 200	
PFECHS	1	0	< 1.8	
PFEESA	42	0	< 1.8 - < 35.3	
PFHpA	69	69		3.36 - 69
PFHpS	44	0	< 0.99 - < 2.01	
PFHxA	69	69		5.25 - 4270
PFHxDA	3	2	< 2.6	1.5 - 2.6
PFHxS	69	66	< 1.7 - < 1.8	1.8 - 25
PFMOAA	5	1	< 200	16
PFNA	69	65	< 1.69 - < 1.77	2 - 30
PFNS	44	0	< 1.5 - < 2.01	
PFO2HxA	5	0	< 1.8 - < 200	
PFO3OA	5	0	< 1.8 - < 200	
PFO4DA	5	0	< 1.8 - < 200	
PFO5DA	5	0	< 4.4 - < 200	
PFOA	294	293	< 200	61 - 255000
PFODA	3	0	< 1.2 - < 2.6	
PFOS	69	53	< 1.68 - < 2	1.78 - 6.92
PFOSA	44	0	< 1.2 - < 2.7	
PFPA	64	64		4.4 - 29000
PFPeS	44	2	< 1.65 - < 2.01	1.78 - 3.1
PFPrS	1	0	< 1.8	
PFTeA	69	36	< 0.92 - < 2.01	1.4 - 10
PFTriA	69	62	< 0.92 - < 1.83	1.82 - 66.7
PFUnA	69	55	< 1.6 - < 1.86	2.14 - 31.3
PMPA	5	1	< 200	15
PPF Acid	1	1		1200
PS Acid	5	0	< 8.8 - < 200	
R-EVE	1	0	< 1.8	
R-PSDA	1	0	< 1.8	
R-PSDCA	1	0	< 1.8	

Table 5-11
2018 Through 2023 Process Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 006	Latitude (Decimal):	39.26480103	Longitude (Decimal):	-81.67874908
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTCA	1	0	< 1.8	
10:2 FTS	3	0	< 0.9 - < 8.2	
10:2 FTUCA	1	0	< 1.8	
11Cl-PF3OUdS	22	0	< 0.37 - < 7.93	
3:3 FTCA	6	0	< 1.8 - < 9.91	
4:2 FTS	8	0	< 0.9 - < 7.93	
5:3 FTCA	6	0	< 1.8 - < 49.6	
6:2 FTCA	1	0	< 1.8	
6:2 FTS	15	2	< 1.8 - < 20	1.5 - 27
6:2 FTUCA	1	0	< 1.8	
7:3 FTCA	6	0	< 1.8 - < 49.6	
8:2 FTCA	1	0	< 1.8	
8:2 FTS	8	0	< 1.8 - < 7.93	
8:2 FTUCA	1	0	< 1.8	
9Cl-PF3ONS	22	0	< 0.28 - < 7.93	
DONA	20	0	< 0.84 - < 7.93	
EVE Acid	1	0	< 9	
FBSA	1	0	< 1.8	
FBSEE	1	0	< 1.8	
FHXSA	1	0	< 1.8	
HFPO-DA	82	82		640 - 67000
Hydro-EVE Acid	1	0	< 1.8	
Hydrolyzed PSDA	1	0	< 1.8	
Hydro-PS Acid	5	0	< 1.8 - < 200	
MTP	1	0	< 4.5	
NaDONA	2	0	< 0.28 - < 0.99	
NEtFOSA	8	0	< 1.73 - < 8.2	
NEtFOSAA	22	0	< 0.9 - < 3	
NEtFOSE	8	1	< 2.7 - < 19.8	1.8
NMeFOSA	8	0	< 1.73 - < 8.2	
NMeFOSAA	22	0	< 0.9 - < 3.97	
NMeFOSE	8	1	< 2.7 - < 19.8	2
NVHOS, Acid Form	1	0	< 1.8	
PEPA	5	0	< 1.8 - < 200	
PFBA	17	16	< 800	14 - 60.1
PFBS	29	17	< 1.73 - < 2	1.8 - 6.2
PFDA	29	29		4.7 - 290
PFDoA	22	22		3.1 - 22.5
PFDoS	8	0	< 0.27 - < 2.7	
PFDS	8	0	< 0.54 - < 1.98	
PFECA B	6	0	< 1.8 - < 3.97	
PFECA-A	6	0	< 1.8 - < 3.97	
PFECA-F	6	0	< 1.8 - < 3.97	
PFECA-G	5	0	< 1.8 - < 200	
PFECHS	1	0	< 1.8	
PFEESA	6	0	< 1.8 - < 3.97	
PFHpA	29	29		12 - 99.1
PFHpS	8	0	< 0.36 - < 1.98	
PFHxA	29	29		10 - 152
PFHxDA	10	5	< 2 - < 2.7	0.59 - 6
PFHxS	29	29		5.1 - 59.5
PFMOAA	5	1	< 200	45
PFNA	29	29		7 - 67
PFNS	8	0	< 0.54 - < 1.98	
PFO2HxA	5	0	< 1.8 - < 200	
PFO3OA	5	0	< 1.8 - < 200	
PFO4DA	5	0	< 1.8 - < 200	
PFO5DA	5	0	< 4.5 - < 200	
PFOA	82	82		140 - 4300
PFODA	10	3	< 0.45 - < 2.7	2.1 - 3.7
PFOS	29	29		5 - 390
PFOSA	8	0	< 0.45 - < 2.7	
PFPA	24	24		8.8 - 188
PFPeS	15	6	< 1.73 - < 2	2.47 - 6.16
PFPrS	1	0	< 1.8	
PFTeA	29	23	< 0.84 - < 2	1.7 - 13
PFTriA	29	29		2.2 - 19.2
PFUnA	29	29		6.7 - 43.8
PMPA	5	1	< 200	1.8
PPF Acid	1	1		53
PS Acid	5	0	< 9 - < 200	
R-EVE	1	0	< 1.8	
R-PSDA	1	0	< 1.8	
R-PSDCA	1	0	< 1.8	

Table 5-11
2018 Through 2023 Process Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 007	Latitude (Decimal):	39.27135849	Longitude (Decimal):	-81.6735992
Compound	Number of Analyses	Number of Detections >RL	Nondetect RL Range (ng/L)	Detection Range (ng/L)
10:2 FTCA	1	0	< 1.9	
10:2 FTS	3	0	< 4.8 - < 8.1	
10:2 FTUCA	1	0	< 1.9	
11Cl-PF3OUdS	38	0	< 0.62 - < 79.7	
3:3 FTCA	11	0	< 1.9 - < 99.6	
4:2 FTS	13	0	< 1.9 - < 79.7	
5:3 FTCA	11	0	< 1.9 - < 498	
6:2 FTCA	1	0	< 1.9	
6:2 FTS	13	0	< 1.8 - < 79.7	
6:2 FTUCA	1	0	< 1.9	
7:3 FTCA	11	0	< 1.9 - < 498	
8:2 FTCA	1	0	< 1.9	
8:2 FTS	13	0	< 2.9 - < 79.7	
8:2 FTUCA	1	0	< 1.9	
9Cl-PF3ONS	38	0	< 0.47 - < 79.7	
DONA	36	0	< 0.96 - < 79.7	
EVE Acid	1	0	< 9.5	
FBSA	1	0	< 1.9	
FBSEE	1	0	< 1.9	
FHXSA	1	0	< 1.9	
HFPO-DA	83	83		7.6 - 10600
Hydro-EVE Acid	1	0	< 1.9	
Hydrolyzed PSDA	1	0	< 1.9	
Hydro-PS Acid	5	0	< 1.9 - < 200	
MTP	1	0	< 4.8	
NaDONA	2	0	< 0.47 - < 0.93	
NEtFOSA	13	0	< 1.71 - < 19.9	
NEtFOSAA	38	0	< 1.71 - < 19.9	
NEtFOSE	13	0	< 2.7 - < 199	
NMeFOSA	13	0	< 1.71 - < 19.9	
NMeFOSAA	38	0	< 1.6 - < 39.8	
NMeFOSE	13	0	< 2.7 - < 199	
NVHOS, Acid Form	1	0	< 1.9	
PEPA	5	0	< 1.9 - < 200	
PFBA	33	16	< 4.1 - < 79.7	4.3 - 134
PFBS	38	24	< 1.6 - < 19.9	1.3 - 6.2
PFDA	38	32	< 1.6 - < 4.5	1.7 - 160
PFDoA	38	24	< 1.6 - < 19.9	1.8 - 46
PFDoS	13	0	< 0.9 - < 19.9	
PFDS	13	0	< 1.71 - < 19.9	
PFECA B	11	0	< 1.9 - < 39.8	
PFECA-A	11	0	< 1.9 - < 39.8	
PFECA-F	11	1	< 1.9 - < 39.8	5.49
PFECA-G	5	0	< 1.9 - < 200	
PFECHS	1	0	< 1.9	
PFEESA	11	0	< 1.9 - < 39.8	
PFHpA	38	36	< 1.6 - < 1.8	1.8 - 170
PFHpS	13	0	< 1.71 - < 19.9	
PFHxA	38	38		1.9 - 1800
PFHxDA	3	1	< 1.5 - < 2.9	3.4
PFHxS	38	18	< 1.6 - < 19.9	1.8 - 19.7
PFMOAA	5	0	< 1.9 - < 200	
PFNA	38	28	< 1.6 - < 2	1.8 - 98
PFNS	13	0	< 1.71 - < 19.9	
PFO2HxA	5	0	< 1.9 - < 200	
PFO3OA	5	0	< 1.9 - < 200	
PFO4DA	5	0	< 1.9 - < 200	
PFO5DA	5	0	< 4.8 - < 200	
PFOA	83	83		7 - 2200
PFODA	3	1	< 2.5 - < 2.9	1.9
PFOS	38	28	< 1.6 - < 19.9	1.7 - 10.9
PFOSA	13	0	< 1.71 - < 19.9	
PFPA	33	27	< 1.7 - < 39.8	1.8 - 107
PFPeS	13	1	< 1.71 - < 19.9	2.04
PFPrS	1	0	< 1.9	
PFTeA	38	21	< 0.96 - < 19.9	2.3 - 31.1
PFTriA	38	19	< 0.96 - < 19.9	2.1 - 25
PFUnA	38	22	< 1.6 - < 19.9	1.99 - 47.2
PMPA	5	0	< 1.9 - < 200	
PPF Acid	1	0	< 4.8	
PS Acid	5	0	< 9.5 - < 200	
R-EVE	1	0	< 1.9	
R-PSDA	1	0	< 1.9	
R-PSDCA	1	0	< 1.9	

Included in this table are the results finalized between 8/21/2018 and 12/12/2023.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.
Water from the Ranney Well is used for process water. The Ranney Well granular activated carbon (GAC) treatment system installation was completed between September 2021 and November 2021. Results for Outfall 002 prior to the installation of the Ranney Well GAC treatment system and identified as "pre-GAC" results are summarized from 8/21/2018 to 8/30/2021. Results for Outfall 002 subsequent to the installation of the Ranney Well GAC treatment system and identified as "post-GAC" results are summarized from 12/1/2021 to 12/12/2023.

ng/L = Nanograms per liter
RL = Reporting limit

Table 5-12
Recent Process Outfalls PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	Outfall 001	Outfall 002 (PRE-RANNEY GAC)	Outfall 002 (POST-RANNEY GAC)	Outfall 003	Outfall 005	Outfall 006	Outfall 007
Field Sample ID	SW1223-OUTLET 001-A	SW0821-OUTLET 002-082621	SW1223-OUTLET 002-A	SW1223-OUTLET 003-A	SW1223-OUTLET 005-A	SW3Q23 OUTLET 006-072023	SW1223-OUTLET 007-A
Sample Date	12/7/2023	7/15/2021	12/7/2023	12/7/2023	12/7/2023	7/20/2023	12/7/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	< 7.26	< 1.7	< 7.87	< 7.94	< 7.34	< 7.93	< 7.61
3:3 FTCA	< 9.08	--	< 9.84	< 9.92	< 9.17	< 9.91	< 9.51
4:2 FTS	< 7.26	--	< 7.87	< 7.94	< 7.34	< 7.93	< 7.61
5:3 FTCA	< 45.4	--	< 49.2	< 49.6	< 45.9	< 49.6	< 47.6
6:2 FTS	< 7.26	--	< 7.87	< 7.94	< 7.34	< 7.93	< 7.61
7:3 FTCA	< 45.4	--	< 49.2	< 49.6	< 45.9	< 49.6	< 47.6
8:2 FTS	< 7.26	--	< 7.87	< 7.94	< 7.34	< 7.93	< 7.61
9Cl-PF3ONS	< 7.26	< 1.7	< 7.87	< 7.94	< 7.34	< 7.93	< 7.61
DONA	< 7.26	< 1.7 UJ	< 7.87	< 7.94	< 7.34	< 7.93	< 7.61
HFPO-DA	1450	3200	500	70.3	41.3	1230	81.1
NEtFOSA	< 1.82	--	< 1.97	< 1.98	< 1.83	< 1.98	< 1.9
NEtFOSAA	< 1.82	< 2.5	< 1.97	< 1.98	< 1.83	< 1.98	< 1.9
NEtFOSE	< 18.2	--	< 19.7	< 19.8	< 18.3	< 19.8	< 19
NMeFOSA	< 1.82	--	< 1.97	< 1.98	< 1.83	< 1.98	< 1.9
NMeFOSAA	< 3.63	< 1.7	< 3.93	< 3.97	< 3.67	< 3.97	< 3.81
NMeFOSE	< 18.2	--	< 19.7	< 19.8	< 18.3	< 19.8	< 19
PFBA	12.1	140	15.1	8.42	14.9	36.9	134
PFBS	3.5	7.7	5.32	2.21	2.42	5.9	2.45
PFDA	47.2	85	2.86	2.96	< 1.83	17.3	77.4
PFDoA	1.97	< 1.7	< 1.97	< 1.98	< 1.83	5.85	39.8
PFDoS	< 1.82	--	< 1.97	< 1.98	< 1.83	< 1.98	< 1.9
PFDS	< 1.82	--	< 1.97	< 1.98	< 1.83	< 1.98	< 1.9
PFECA B	< 3.63	--	< 3.93	< 3.97	< 3.67	< 3.97	< 3.81
PFECA-A	< 3.63	--	< 3.93	< 3.97	< 3.67	< 3.97	< 3.81
PFECA-F	< 3.63	--	< 3.93	< 3.97	< 3.67	< 3.97	5.49
PFEESA	< 3.63	--	< 3.93	< 3.97	< 3.67	< 3.97	< 3.81
PFHpA	20.2	200	18.1	11.1	6.93	42.9	22
PFHpS	< 1.82	--	< 1.97	< 1.98	< 1.83	< 1.98	< 1.9
PFHxA	45.8	370	22	13.4	14.4	52.5	410
PFHxS	21.7	29	12.1	2.26	2.92	59.5	3.44
PFNA	12.3	77	5.46	5.21	2.01	38.9	16.1
PFNS	< 1.82	--	< 1.97	< 1.98	< 1.83	< 1.98	< 1.9
PFOA	292	8200	556	276	213	374	336
PFOS	18.1	14	4.47	< 1.98	2.28	54.9	3.44 J
PFOSA	< 1.82	--	< 1.97	< 1.98	< 1.83	< 1.98	< 1.9
PFPA	11.5	85	13.3	8.6	22.2	69.7	32.6
PFPeS	2.33	--	< 1.97	< 1.98	< 1.83	6.16	< 1.9
PFTeA	< 1.82	< 1.7	< 1.97	< 1.98	< 1.83	3.01	31.1
PFTriA	< 1.82	< 1.7	< 1.97	< 1.98	< 1.83	3.98	8.02
PFUnA	2.84	< 1.7	< 1.97	< 1.98	< 1.83	10.7	20

Outfall 002 post-Ranney GAC data is for the most recent event after to the estimated time of Ranney well's GAC installation (prior to 12/12/2023).
Outfall 002 pre-Ranney GAC data is for the most recent event that analyzes for more than PFOA and HFPO-DA prior to the Ranney well's GAC installation (in September 2021).
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

< = Not detected at the reporting limit
J = Reported value may not be accurate or precise
ng/L = Nanograms per liter
UJ = Not detected. Reporting limit may not be accurate or precise

Table 5-13
2018 Through 2023 Stormwater Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 011	**Latitude (Decimal):**	39.27027869	**Longitude (Decimal):**	-81.65583389
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTCA	1	0	< 20	
10:2 FTS	1	0	< 49	
10:2 FTUCA	1	0	< 20	
11Cl-PF3OUdS	9	0	< 1.6 - < 20	
3:3 FTCA	2	0	< 8.74 - < 20	
4:2 FTS	2	0	< 6.99 - < 20	
5:3 FTCA	2	0	< 20 - < 43.7	
6:2 FTCA	1	0	< 20	
6:2 FTS	2	0	< 6.99 - < 49	
6:2 FTUCA	1	0	< 20	
7:3 FTCA	2	0	< 20 - < 43.7	
8:2 FTCA	1	0	< 20	
8:2 FTS	2	0	< 6.99 - < 30	
8:2 FTUCA	1	0	< 20	
9Cl-PF3ONS	9	0	< 1.6 - < 20	
DONA	9	0	< 1.6 - < 20	
EVE Acid	1	0	< 99	
FBSA	1	0	< 20	
FBSEE	1	0	< 20	
FHXSA	1	0	< 20	
HFPO-DA	17	17		2000 - 227000
Hydro-EVE Acid	1	0	< 20	
Hydrolyzed PSDA	1	0	< 20	
Hydro-PS Acid	1	0	< 20	
MTP	1	0	< 49	
NEtFOSA	2	0	< 1.75 - < 49	
NEtFOSAA	9	0	< 1.75 - < 30	
NEtFOSE	2	0	< 17.5 - < 30	
NMeFOSA	2	0	< 1.75 - < 30	
NMeFOSAA	9	0	< 1.6 - < 20	
NMeFOSE	2	0	< 17.5 - < 30	
NVHOS, Acid Form	1	0	< 20	
PEPA	1	0	< 20	
PFBA	7	6	< 49	27 - 280
PFBS	9	6	< 1.7 - < 20	2.01 - 5.2
PFDA	9	8	< 20	9.61 - 148
PFDoA	9	8	< 20	2.2 - 100
PFDoS	2	0	< 1.75 - < 30	
PFDS	2	0	< 1.75 - < 20	
PFECA B	2	0	< 3.49 - < 20	
PFECA-A	2	0	< 3.49 - < 20	
PFECA-F	2	0	< 3.49 - < 20	
PFECA-G	1	0	< 20	
PFECHS	1	0	< 20	
PFEESA	2	0	< 3.49 - < 20	
PFHpA	9	9		21 - 68
PFHpS	2	0	< 1.75 - < 20	
PFHxA	9	9		25 - 297
PFHxDA	1	0	< 30	
PFHxS	9	7	< 1.7 - < 20	5.52 - 39.9
PFMOAA	1	0	< 20	
PFNA	9	8	< 20	12 - 82.6
PFNS	2	0	< 1.75 - < 20	
PFO2HxA	1	0	< 20	
PFO3OA	1	0	< 20	
PFO4DA	1	0	< 20	
PFO5DA	1	0	< 49	
PFOA	17	17		220 - 1700
PFODA	1	0	< 30	
PFOS	9	8	< 20	1.9 - 110
PFOSA	2	0	< 1.75 - < 20	
PFPA	7	7		33 - 350
PFPeS	2	1	< 20	4.53
PFPrS	1	0	< 20	
PFTeA	9	7	< 2 - < 20	1.7 - 46
PFTriA	9	5	< 1.6 - < 20	2.3 - 140
PFUnA	9	8	< 20	3.1 - 82
PMPA	1	0	< 20	
PPF Acid	1	1		130
PS Acid	1	0	< 99	
R-EVE	1	0	< 20	
R-PSDA	1	0	< 20	
R-PSDCA	1	0	< 20	

Table 5-13
2018 Through 2023 Stormwater Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 016	**Latitude (Decimal):**	39.27083424	**Longitude (Decimal):**	-81.67527833
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.6 - < 8.15	
3:3 FTCA	1	0	< 8.63	
4:2 FTS	1	0	< 6.9	
5:3 FTCA	1	0	< 43.2	
6:2 FTS	1	0	< 6.9	
7:3 FTCA	1	0	< 43.2	
8:2 FTS	1	0	< 6.9	
9Cl-PF3ONS	9	0	< 1.6 - < 8.15	
DONA	9	0	< 1.6 - < 8.15	
HFPO-DA	17	17		680 - 7830
NEtFOSA	1	0	< 1.73	
NEtFOSAA	9	0	< 1.73 - < 3	
NEtFOSE	1	0	< 17.3	
NMeFOSA	1	0	< 1.73	
NMeFOSAA	9	0	< 1.6 - < 4.07	
NMeFOSE	1	0	< 17.3	
PFBA	6	6		56 - 980
PFBS	9	4	< 1.7 - < 2	1.9 - 5.5
PFDA	9	9		30.7 - 200
PFDoA	9	9		27 - 87
PFDoS	1	0	< 1.73	
PFDS	1	0	< 1.73	
PFECA B	1	0	< 3.45	
PFECA-A	1	1		29.6
PFECA-F	1	1		13.9
PFEESA	1	0	< 3.45	
PFHpA	9	9		46 - 250
PFHpS	1	0	< 1.73	
PFHxA	9	9		63 - 1400
PFHxS	9	1	< 1.6 - < 2.04	1.79
PFNA	9	9		43 - 170
PFNS	1	0	< 1.73	
PFOA	17	17		170 - 630
PFOS	9	6	< 1.8 - < 2.04	1.7 - 3.2
PFOSA	1	0	< 1.73	
PFPA	6	6		140 - 2040
PFPeS	1	0	< 1.73	
PFTeA	9	9		6.2 - 71.6
PFTriA	9	9		15 - 165
PFUnA	9	9		36 - 110
Outfall 019	**Latitude (Decimal):**	39.27027868	**Longitude (Decimal):**	-81.67611166
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	2	0	< 1.7 - < 2	
9Cl-PF3ONS	2	0	< 1.7 - < 2	
DONA	2	0	< 1.7 - < 2	
HFPO-DA	7	7		290 - 2700
NEtFOSAA	2	0	< 2.5 - < 3	
NMeFOSAA	2	0	< 1.7 - < 2	
PFBS	2	0	< 1.7 - < 2	
PFDA	2	2		7.4 - 12
PFDoA	2	2		4.2 - 7.3
PFHpA	2	2		13 - 15
PFHxA	2	2		15 - 19
PFHxS	2	1	< 2	1.7
PFNA	2	2		15 - 16
PFOA	7	7		80 - 510
PFOS	2	1	< 2	2
PFTeA	2	2		2.7 - 5.7
PFTriA	2	2		2.9 - 4.5
PFUnA	2	2		6.4 - 10

Table 5-13
2018 Through 2023 Stormwater Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 022	**Latitude (Decimal):**	39.26444535	**Longitude (Decimal):**	-81.67333388
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	8	0	< 1.6 - < 8.36	
3:3 FTCA	1	0	< 8.94	
4:2 FTS	1	0	< 7.15	
5:3 FTCA	1	0	< 44.7	
6:2 FTS	1	0	< 7.15	
7:3 FTCA	1	0	< 44.7	
8:2 FTS	1	0	< 7.15	
9Cl-PF3ONS	8	0	< 1.6 - < 8.36	
DONA	8	0	< 1.6 - < 8.36	
HFPO-DA	16	16		390 - 7200
NEtFOSA	1	0	< 1.79	
NEtFOSAA	8	0	< 1.79 - < 3	
NEtFOSE	1	0	< 17.9	
NMeFOSA	1	0	< 1.79	
NMeFOSAA	8	0	< 1.6 - < 4.18	
NMeFOSE	1	0	< 17.9	
PFBA	6	6		10 - 26.6
PFBS	8	1	< 1.6 - < 2.09	1.7
PFDA	8	8		4.3 - 22
PFDoA	8	8		4.7 - 75
PFDoS	1	0	< 1.79	
PFDS	1	0	< 1.79	
PFECA B	1	0	< 3.58	
PFECA-A	1	0	< 3.58	
PFECA-F	1	0	< 3.58	
PFEESA	1	0	< 3.58	
PFHpA	8	8		5.6 - 23.4
PFHpS	1	0	< 1.79	
PFHxA	8	8		8.1 - 64.7
PFHxS	8	1	< 1.6 - < 2.09	22
PFNA	8	8		5.3 - 19.2
PFNS	1	0	< 1.79	
PFOA	16	16		17 - 2800
PFOS	8	5	< 1.6 - < 2	2.1 - 41
PFOSA	1	0	< 1.79	
PFPA	6	6		5.7 - 21.3
PFPeS	1	0	< 1.79	
PFTeA	8	6	< 1.6 - < 2.09	1.9 - 41
PFTriA	8	8		2.8 - 39
PFUnA	8	8		8.1 - 46
Outfall 023	**Latitude (Decimal):**	39.2638898	**Longitude (Decimal):**	-81.67638944
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	8	0	< 1.6 - < 7.23	
3:3 FTCA	1	0	< 8.6	
4:2 FTS	1	0	< 6.88	
5:3 FTCA	1	0	< 43	
6:2 FTS	1	0	< 6.88	
7:3 FTCA	1	0	< 43	
8:2 FTS	1	0	< 6.88	
9Cl-PF3ONS	8	0	< 1.6 - < 7.23	
DONA	8	0	< 1.6 - < 7.23	
HFPO-DA	16	16		71 - 4040
NEtFOSA	1	0	< 1.72	
NEtFOSAA	8	0	< 1.72 - < 3	
NEtFOSE	1	0	< 17.2	
NMeFOSA	1	0	< 1.72	
NMeFOSAA	8	0	< 1.6 - < 3.61	
NMeFOSE	1	0	< 17.2	
PFBA	6	4	< 4.8 - < 6.88	4.1 - 19
PFBS	8	1	< 1.6 - < 2	1.8
PFDA	8	7	< 1.72	1.6 - 15
PFDoA	8	4	< 1.6 - < 2	2.5 - 9.7
PFDoS	1	0	< 1.72	
PFDS	1	0	< 1.72	
PFECA B	1	0	< 3.44	
PFECA-A	1	0	< 3.44	
PFECA-F	1	0	< 3.44	
PFEESA	1	0	< 3.44	
PFHpA	8	8		1.8 - 19.2
PFHpS	1	0	< 1.72	
PFHxA	8	8		2.9 - 21
PFHxS	8	4	< 1.8 - < 2	2.8 - 22
PFNA	8	8		1.7 - 15.9
PFNS	1	0	< 1.72	
PFOA	16	16		11 - 72
PFOS	8	7	< 1.81	2.3 - 79
PFOSA	1	0	< 1.72	
PFPA	6	5	< 3.44	2.6 - 25
PFPeS	1	0	< 1.72	
PFTeA	8	3	< 1.6 - < 2	2 - 4.6
PFTriA	8	4	< 1.6 - < 2	2.8 - 8.2
PFUnA	8	5	< 1.6 - < 1.72	3.8 - 13.8

Table 5-13
2018 Through 2023 Stormwater Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 030	Latitude (Decimal):	39.27250091	Longitude (Decimal):	-81.66638944
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTCA	1	0	< 1.8	
10:2 FTS	1	0	< 4.6	
10:2 FTUCA	1	0	< 1.8	
11Cl-PF3OUdS	9	0	< 1.6 - < 7.5	
3:3 FTCA	2	0	< 1.8 - < 8.66	
4:2 FTS	2	0	< 1.8 - < 6.93	
5:3 FTCA	2	0	< 1.8 - < 43.3	
6:2 FTCA	1	0	< 1.8	
6:2 FTS	2	0	< 4.6 - < 6.93	
6:2 FTUCA	1	0	< 1.8	
7:3 FTCA	2	0	< 1.8 - < 43.3	
8:2 FTCA	1	0	< 1.8	
8:2 FTS	2	0	< 2.7 - < 6.93	
8:2 FTUCA	1	0	< 1.8	
9Cl-PF3ONS	9	0	< 1.6 - < 7.5	
DONA	9	0	< 1.6 - < 7.5	
EVE Acid	1	0	< 9.2	
FBSA	1	0	< 1.8	
FBSEE	1	0	< 1.8	
FHXSA	1	0	< 1.8	
HFPO-DA	17	17		290 - 16000
Hydro-EVE Acid	1	0	< 1.8	
Hydrolyzed PSDA	1	0	< 1.8	
Hydro-PS Acid	1	0	< 1.8	
MTP	1	0	< 4.6	
NEtFOSA	2	0	< 1.73 - < 4.6	
NEtFOSAA	9	0	< 1.73 - < 3	
NEtFOSE	2	0	< 2.7 - < 17.3	
NMeFOSA	2	0	< 1.73 - < 2.7	
NMeFOSAA	9	0	< 1.6 - < 3.75	
NMeFOSE	2	0	< 2.7 - < 17.3	
NVHOS, Acid Form	1	0	< 1.8	
PEPA	1	0	< 1.8	
PFBA	7	7		23 - 98
PFBS	9	7	< 1.6 - < 2	1.7 - 4.9
PFDA	9	9		21 - 44
PFDoA	9	9		5.25 - 110
PFDoS	2	0	< 1.73 - < 2.7	
PFDS	2	0	< 1.73 - < 1.8	
PFECA B	2	0	< 1.8 - < 3.46	
PFECA-A	2	0	< 1.8 - < 3.46	
PFECA-F	2	0	< 1.8 - < 3.46	
PFECA-G	1	0	< 1.8	
PFECHS	1	0	< 1.8	
PFEESA	2	0	< 1.8 - < 3.46	
PFHpA	9	9		19 - 180
PFHpS	2	0	< 1.73 - < 1.8	
PFHxA	9	9		35 - 130
PFHxDA	1	0	< 2.7	
PFHxS	9	9		8.5 - 43
PFMOAA	1	1		130
PFNA	9	9		29 - 110
PFNS	2	0	< 1.73 - < 1.8	
PFO2HxA	1	0	< 1.8	
PFO3OA	1	0	< 1.8	
PFO4DA	1	0	< 1.8	
PFO5DA	1	0	< 4.6	
PFOA	17	17		54 - 380
PFODA	1	0	< 2.7	
PFOS	9	9		18 - 76
PFOSA	2	1	< 1.8	1.82
PFPA	7	7		22 - 140
PFPeS	2	2		2.1 - 2.84
PFPrS	1	0	< 1.8	
PFTeA	9	9		3.1 - 80
PFTriA	9	9		5.4 - 59
PFUnA	9	9		17 - 78
PMPA	1	1		6.7
PPF Acid	1	1		100
PS Acid	1	0	< 9.2	
R-EVE	1	0	< 1.8	
R-PSDA	1	0	< 1.8	
R-PSDCA	1	0	< 1.8	

Table 5-13
2018 Through 2023 Stormwater Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 031	Latitude (Decimal):	39.27222312	Longitude (Decimal):	-81.66861166
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	8	0	< 1.6 - < 17	
3:3 FTCA	1	0	< 8.73	
4:2 FTS	1	0	< 6.98	
5:3 FTCA	1	0	< 43.7	
6:2 FTS	1	0	< 6.98	
7:3 FTCA	1	0	< 43.7	
8:2 FTS	1	0	< 6.98	
9Cl-PF3ONS	8	0	< 1.6 - < 17	
DONA	8	0	< 1.6 - < 17	
HFPO-DA	16	16		1300 - 150000
NEtFOSA	1	0	< 1.75	
NEtFOSAA	8	0	< 1.75 - < 25	
NEtFOSE	1	0	< 17.5	
NMeFOSA	1	0	< 1.75	
NMeFOSAA	8	0	< 1.6 - < 17	
NMeFOSE	1	0	< 17.5	
PFBA	6	6		76 - 810
PFBS	8	0	< 1.6 - < 17	
PFDA	8	8		51 - 240
PFDoA	8	8		10.7 - 300
PFDoS	1	0	< 1.75	
PFDS	1	0	< 1.75	
PFECA B	1	0	< 3.49	
PFECA-A	1	1		5.43
PFECA-F	1	0	< 3.49	
PFEESA	1	0	< 3.49	
PFHpA	8	8		63 - 540
PFHpS	1	0	< 1.75	
PFHxA	8	8		85 - 880
PFHxS	8	6	< 1.6 - < 17	1.6 - 2.54
PFNA	8	8		120 - 350
PFNS	1	0	< 1.75	
PFOA	16	16		150 - 990
PFOS	8	7	< 17	2.8 - 5
PFOSA	1	0	< 1.75	
PFPA	6	6		80 - 1000
PFPeS	1	0	< 1.75	
PFTeA	8	8		7.41 - 330
PFTriA	8	8		13 - 430
PFUnA	8	8		45 - 240
Outfall 032	**Latitude (Decimal):**	39.27222312	**Longitude (Decimal):**	-81.67000055
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	8	0	< 1.6 - < 17	
3:3 FTCA	1	0	< 8.79	
4:2 FTS	1	0	< 10.8	
5:3 FTCA	1	0	< 4390	
6:2 FTS	1	1		20.4
7:3 FTCA	1	0	< 4390	
8:2 FTS	1	0	< 7.03	
9Cl-PF3ONS	8	0	< 1.6 - < 17	
DONA	8	0	< 1.6 - < 17	
HFPO-DA	16	16		1300 - 440000
NEtFOSA	1	0	< 1.76	
NEtFOSAA	8	0	< 1.76 - < 26	
NEtFOSE	1	0	< 17.6	
NMeFOSA	1	0	< 1.76	
NMeFOSAA	8	0	< 1.6 - < 17	
NMeFOSE	1	0	< 17.6	
PFBA	6	6		140 - 800
PFBS	8	1	< 1.6 - < 17	1.8
PFDA	8	8		91 - 250
PFDoA	8	8		33 - 260
PFDoS	1	0	< 1.76	
PFDS	1	0	< 1.76	
PFECA B	1	0	< 351	
PFECA-A	1	1		6.31
PFECA-F	1	1		5.05
PFEESA	1	0	< 351	
PFHpA	8	8		120 - 920
PFHpS	1	0	< 1.76	
PFHxA	8	7	< 176	160 - 810
PFHxS	8	7	< 17	3.2 - 8.6
PFNA	8	8		200 - 700
PFNS	1	0	< 1.76	
PFOA	16	16		150 - 1900
PFOS	8	7	< 17	6.74 - 15
PFOSA	1	1		1.76
PFPA	6	6		140 - 1100
PFPeS	1	0	< 2.69	
PFTeA	8	8		14 - 271
PFTriA	8	8		27 - 458
PFUnA	8	8		90 - 443

Table 5-13
2018 Through 2023 Stormwater Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 033	Latitude (Decimal):	39.27194535	Longitude (Decimal):	-81.67138944
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTCA	1	0	< 20	
10:2 FTS	1	0	< 50	
10:2 FTUCA	1	0	< 20	
11Cl-PF3OUdS	10	0	< 1.6 - < 20	
3:3 FTCA	2	0	< 8.82 - < 20	
4:2 FTS	2	0	< 7.05 - < 20	
5:3 FTCA	2	0	< 20 - < 44.1	
6:2 FTCA	1	0	< 20	
6:2 FTS	2	0	< 7.05 - < 50	
6:2 FTUCA	1	0	< 20	
7:3 FTCA	2	0	< 20 - < 44.1	
8:2 FTCA	1	0	< 20	
8:2 FTS	2	0	< 7.05 - < 30	
8:2 FTUCA	1	0	< 20	
9Cl-PF3ONS	10	0	< 1.6 - < 20	
DONA	10	0	< 1.6 - < 20	
EVE Acid	1	0	< 100	
FBSA	1	0	< 20	
FBSEE	1	0	< 20	
FHXSA	1	0	< 20	
HFPO-DA	18	18		2800 - 69000
Hydro-EVE Acid	1	0	< 20	
Hydrolyzed PSDA	1	0	< 20	
Hydro-PS Acid	1	0	< 20	
MTP	1	0	< 50	
NEtFOSA	2	0	< 1.76 - < 50	
NEtFOSAA	10	0	< 1.76 - < 30	
NEtFOSE	2	0	< 17.6 - < 30	
NMeFOSA	2	0	< 1.76 - < 30	
NMeFOSAA	10	0	< 1.6 - < 20	
NMeFOSE	2	0	< 17.6 - < 30	
NVHOS, Acid Form	1	0	< 20	
PEPA	1	0	< 20	
PFBA	7	7		250 - 830
PFBS	10	1	< 1.6 - < 176	2.26
PFDA	10	10		120 - 450
PFDoA	10	10		39 - 221
PFDoS	2	0	< 1.76 - < 30	
PFDS	2	0	< 1.76 - < 20	
PFECA B	2	1	< 20	8.94
PFECA-A	2	1	< 20	22
PFECA-F	2	1	< 20	11.1
PFECA-G	1	0	< 20	
PFECHS	1	0	< 20	
PFEESA	2	0	< 3.53 - < 20	
PFHpA	10	10		100 - 1700
PFHpS	2	0	< 1.76 - < 20	
PFHxA	10	10		340 - 1100
PFHxDA	1	0	< 30	
PFHxS	10	1	< 1.6 - < 20	5.04
PFMOAA	1	1		680
PFNA	10	10		110 - 1100
PFNS	2	0	< 1.76 - < 20	
PFO2HxA	1	0	< 20	
PFO3OA	1	0	< 20	
PFO4DA	1	0	< 20	
PFO5DA	1	0	< 50	
PFOA	18	18		310 - 28000
PFODA	1	0	< 30	
PFOS	10	8	< 16 - < 20	1.9 - 7.06
PFOSA	2	0	< 1.76 - < 20	
PFPA	7	7		370 - 1400
PFPeS	2	0	< 1.76 - < 20	
PFPrS	1	0	< 20	
PFTeA	10	10		21 - 343
PFTriA	10	10		42 - 460
PFUnA	10	10		120 - 570
PMPA	1	1		33
PPF Acid	1	1		350
PS Acid	1	0	< 100	
R-EVE	1	0	< 20	
R-PSDA	1	0	< 20	
R-PSDCA	1	0	< 20	

Table 5-13
2018 Through 2023 Stormwater Outfalls PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Outfall 034	Latitude (Decimal):	39.27166758	Longitude (Decimal):	-81.67305611
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.7 - < 16	
3:3 FTCA	1	0	< 8.95	
4:2 FTS	1	0	< 7.16	
5:3 FTCA	1	0	< 44.7	
6:2 FTS	1	0	< 7.16	
7:3 FTCA	1	0	< 44.7	
8:2 FTS	1	0	< 7.16	
9Cl-PF3ONS	9	0	< 1.7 - < 16	
DONA	9	0	< 1.7 - < 16	
HFPO-DA	17	17		1000 - 16000
NEtFOSA	1	0	< 1.79	
NEtFOSAA	9	0	< 1.79 - < 24	
NEtFOSE	1	0	< 17.9	
NMeFOSA	1	0	< 1.79	
NMeFOSAA	9	0	< 1.7 - < 16	
NMeFOSE	1	0	< 17.9	
PFBA	6	6		120 - 1200
PFBS	9	1	< 1.7 - < 16	1.84
PFDA	9	9		29.2 - 200
PFDoA	9	9		20 - 110
PFDoS	1	0	< 1.79	
PFDS	1	0	< 1.79	
PFECA B	1	0	< 3.58	
PFECA-A	1	1		20.9
PFECA-F	1	1		8.38
PFEESA	1	0	< 3.58	
PFHpA	9	9		52 - 760
PFHpS	1	0	< 1.79	
PFHxA	9	9		129 - 1000
PFHxS	9	0	< 1.7 - < 16	
PFNA	9	9		50 - 460
PFNS	1	0	< 1.79	
PFOA	17	17		210 - 16000
PFOS	9	5	< 1.81 - < 16	2 - 4
PFOSA	1	1		2.6
PFPA	6	6		210 - 1640
PFPeS	1	0	< 1.79	
PFTeA	9	8	< 16	11 - 86
PFTriA	9	9		15 - 160
PFUnA	9	9		47.9 - 220
Outfall 036	**Latitude (Decimal):**	39.27083424	**Longitude (Decimal):**	-81.67611166
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.6 - < 7.77	
3:3 FTCA	1	0	< 8.57	
4:2 FTS	1	0	< 6.86	
5:3 FTCA	1	0	< 42.9	
6:2 FTS	1	0	< 6.86	
7:3 FTCA	1	0	< 42.9	
8:2 FTS	1	0	< 6.86	
9Cl-PF3ONS	9	0	< 1.6 - < 7.77	
DONA	9	0	< 1.6 - < 7.77	
HFPO-DA	17	17		1200 - 13000
NEtFOSA	1	0	< 1.71	
NEtFOSAA	9	1	< 1.94 - < 3.2	2.16
NEtFOSE	1	0	< 17.1	
NMeFOSA	1	0	< 1.71	
NMeFOSAA	9	0	< 1.6 - < 3.88	
NMeFOSE	1	0	< 17.1	
PFBA	6	6		33 - 172
PFBS	9	0	< 1.6 - < 2.1	
PFDA	9	9		9.1 - 44
PFDoA	9	9		9.2 - 75
PFDoS	1	0	< 1.71	
PFDS	1	0	< 1.71	
PFECA B	1	0	< 3.43	
PFECA-A	1	0	< 3.43	
PFECA-F	1	0	< 3.43	
PFEESA	1	0	< 3.43	
PFHpA	9	9		16 - 101
PFHpS	1	0	< 1.71	
PFHxA	9	9		18 - 130
PFHxS	9	0	< 1.6 - < 2.1	
PFNA	9	9		13 - 77.8
PFNS	1	0	< 1.71	
PFOA	17	17		113 - 920
PFOS	9	3	< 1.7 - < 2.1	2 - 8.04
PFOSA	1	1		2.12
PFPA	6	6		75 - 1970
PFPeS	1	0	< 1.71	
PFTeA	9	9		5.4 - 51.2
PFTriA	9	9		11 - 111
PFUnA	9	9		12 - 74

Included in this table are the results finalized between 8/21/2018 and 12/12/2023.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

ng/L = Nanograms per liter
RL = Reporting limit

Table 5-14
Recent Stormwater Outfalls PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	OUTFALL 011	OUTFALL 016	OUTFALL 019	OUTFALL 022	OUTFALL 023	OUTFALL 025	OUTFALL 030	OUTFALL 031	OUTFALL 032	OUTFALL 033	OUTFALL 034	OUTFALL 036
Field Sample ID	SW4Q23-OUTLET 011-103023	SW4Q23-OUTLET 016-103023	SW2Q20-OUTLET 019	SW4Q23-OUTLET 022-103023	SW4Q23-OUTLET 023-103023	Outfall 025	SW4Q23-OUTLET 030-103023	SW4Q23-OUTLET 031-103023	SW4Q23-OUTLET 032-103023	SW4Q23-OUTLET 033-103023	SW4Q23-OUTLET 034-103023	SW4Q23-OUTLET 036-103023
Sample Date	10/30/2023	10/30/2023	5/21/2020	10/30/2023	10/30/2023	10/30/2023	10/30/2023	10/30/2023	10/30/2023	10/30/2023	10/30/2023	10/30/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
10:2 FTCA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
10:2 FTS	--	--	--	--	--	< 4.4 UJ	--	--	--	--	--	--
10:2 FTUCA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
11Cl-PF3OUdS	< 6.99	< 6.9	< 2	< 7.15	< 6.88	< 1.8 UJ	< 6.93	< 6.98	< 7.03	< 7.05	< 7.16	< 6.86
3:3 FTCA	< 8.74	< 8.63	--	< 8.94	< 8.6	< 1.8 UJ	< 8.66	< 8.73	< 8.79	< 8.82	< 8.95	< 8.57
4:2 FTS	< 6.99	< 6.9	--	< 7.15	< 6.88	< 1.8 UJ	< 6.93	< 6.98	< 10.8 UJ	< 7.05	< 7.16	< 6.86
5:3 FTCA	< 43.7	< 43.2	--	< 44.7 R	< 43	< 1.8 UJ	< 43.3	< 43.7	< 4390	< 44.1	< 44.7	< 42.9
6:2 FTCA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
6:2 FTS	< 6.99	< 6.9	--	< 7.15	< 6.88	< 4.4 UJ	< 6.93	< 6.98	20.4 J	< 7.05	< 7.16	< 6.86
6:2 FTUCA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
7:3 FTCA	< 43.7	< 43.2	--	< 44.7	< 43	< 1.8 UJ	< 43.3	< 43.7	< 4390	< 44.1	< 44.7	< 42.9
8:2 FTCA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
8:2 FTS	< 6.99	< 6.9	--	< 7.15	< 6.88	< 2.7 UJ	< 6.93	< 6.98	< 7.03	< 7.05	< 7.16	< 6.86
8:2 FTUCA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
9Cl-PF3ONS	< 6.99	< 6.9	< 2	< 7.15	< 6.88	< 1.8 UJ	< 6.93	< 6.98	< 7.03	< 7.05	< 7.16	< 6.86
DONA	< 6.99	< 6.9	< 2	< 7.15	< 6.88	< 1.8 UJ	< 6.93	< 6.98	< 7.03	< 7.05	< 7.16	< 6.86
EVE Acid	--	--	--	--	--	< 8.8 R	--	--	--	--	--	--
FBSA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
FBSEE	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
FHXSA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
HFPO-DA	15700	4610	590	834	99.1	1300	2260	6360	10300	21400	5690	6870
Hydro-EVE Acid	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
Hydrolyzed PSDA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
Hydro-PS Acid	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
MTP	--	--	--	--	--	< 4.4 UJ	--	--	--	--	--	--
NEtFOSA	< 1.75	< 1.73	--	< 1.79	< 1.72	< 4.4 UJ	< 1.73	< 1.75	< 1.76	< 1.76	< 1.79	< 1.71
NEtFOSAA	< 1.75	< 1.73	< 3	< 1.79	< 1.72	< 2.7 UJ	< 1.73	< 1.75	< 1.76	< 1.76	< 1.79	2.16
NEtFOSE	< 17.5	< 17.3	--	< 17.9	< 17.2	< 2.7 UJ	< 17.3	< 17.5	< 17.6	< 17.6	< 17.9	< 17.1
NMeFOSA	< 1.75	< 1.73	--	< 1.79	< 1.72	< 2.7 UJ	< 1.73	< 1.75	< 1.76	< 1.76	< 1.79	< 1.71
NMeFOSAA	< 3.49	< 3.45	< 2	< 3.58	< 3.44	< 1.8 UJ	< 3.46	< 3.49	< 5.38 UJ	< 3.53	< 3.58	< 3.43
NMeFOSE	< 17.5	< 17.3	--	< 17.9	< 17.2	< 2.7 UJ	< 17.3	< 17.5	< 17.6	< 17.6	< 17.9	< 17.1
NVHOS, Acid Form	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
PEPA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
PFBA	32.5	398	--	26.6	< 6.88	22 J	47.1	137	173	570	501	53.2
PFBS	< 17.5	< 1.73	< 2	< 1.79	< 1.72	< 1.8 UJ	2.86	< 1.75	< 1.76 UJ	< 176	1.84	< 1.71
PFDA	148	121	7.4	11.4	< 1.72	3.2 J	21.5	53.3	134 J	274	195	31.1
PFDoA	6.23	62.4	4.2	4.94	< 1.72	< 1.8 UJ	5.25	10.7	37.6	61.1 J	26.7	17.3
PFDoS	< 1.75	< 1.73	--	< 1.79	< 1.72	< 2.7 UJ	< 1.73	< 1.75	< 1.76	< 1.76	< 1.79	< 1.71
PFDS	< 1.75	< 1.73	--	< 1.79	< 1.72	< 1.8 UJ	< 1.73	< 1.75	< 1.76	< 1.76	< 1.79	< 1.71
PFECA B	< 3.49	< 3.45	--	< 3.58	< 3.44	< 1.8 UJ	< 3.46	< 3.49	< 351	8.94	< 3.58	< 3.43
PFECA-A	< 3.49	29.6	--	< 3.58	< 3.44	< 1.8 UJ	< 3.46	5.43	6.31	22	20.9	< 3.43
PFECA-F	< 3.49	13.9	--	< 3.58	< 3.44	< 1.8 UJ	< 3.46	< 3.49	5.05	11.1	8.38	< 3.43
PFECA-G	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
PFECHS	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
PFEESA	< 3.49	< 3.45	--	< 3.58	< 3.44	< 1.8 UJ	< 3.46	< 3.49	< 351	< 3.53	< 3.58	< 3.43
PFHpA	52.2	179	15	23.4	2.73	29 J	59	217	263 J	1240	435	34.7
PFHpS	< 1.75	< 1.73	--	< 1.79	< 1.72	< 1.8 UJ	< 1.73	< 1.75	< 1.76	< 1.76	< 1.79	< 1.71
PFHxA	297	723	19	64.7 J	3.11	26 J	73.9	185	< 176	873	867	91
PFHxDA	--	--	--	--	--	< 2.7 UJ	--	--	--	--	--	--
PFHxS	39.9	1.79	< 2	< 1.79	5.79	< 1.8 UJ	26.2	2.54	7.13 J	< 1.76	< 1.79	< 1.71
PFMOAA	--	--	--	--	--	13 J	--	--	--	--	--	--
PFNA	82.6 J	163 J	15	11 J	2.48 J	8.9 J	70 J	255 J	327 J	895 J	432 J	35 J
PFNS	< 1.75	< 1.73	--	< 1.79	< 1.72	< 1.8 UJ	< 1.73	< 1.75	< 1.76	< 1.76	< 1.79	< 1.71
PFO2HxA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
PFO3OA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
PFO4DA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
PFO5DA	--	--	--	--	--	< 4.4 UJ	--	--	--	--	--	--
PFOA	681	501	97	200	61.7	800	191	372	657 J	7490	3360	364
PFODA	--	--	--	--	--	< 2.7 UJ	--	--	--	--	--	--
PFOS	50.4	1.93	< 2	2.36	22.4	< 1.8 UJ	30.6	3.24	9.39	2.37	2	8.04
PFOSA	< 1.75	< 1.73	--	< 1.79	< 1.72	< 1.8 UJ	1.82	< 1.75	1.76	< 1.76	2.6	2.12
PFPA	89.3	973	--	21.3 J	< 3.44	15 J	61.9 J	212	355	1250	868	642
PFPeS	4.53	< 1.73	--	< 1.79	< 1.72	< 1.8 UJ	2.84	< 1.75	< 2.69 UJ	< 1.76	< 1.79	< 1.71
PFPrS	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
PFTeA	2.37	39.3	2.7	3.62	< 1.72	2.1 J	5.29	7.41	21.3	41.7	23.7	14.4
PFTriA	< 1.75	165	2.9	5.47	< 1.72	2.5 J	7.58	14.8	46.5	87.8	44.2	36.5
PFUnA	11.2	85.3	6.4	10	< 1.72	1.9 J	18.5	45.7	147	268	122	31.3
PMPA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
PPF Acid	--	--	--	--	--	53 J	--	--	--	--	--	--
PS Acid	--	--	--	--	--	< 8.8 R	--	--	--	--	--	--
R-EVE	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
R-PSDA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--
R-PSDCA	--	--	--	--	--	< 1.8 UJ	--	--	--	--	--	--

Outfall 019 data is for the most recent event that analyzes for more than PFOA and HFPO-DA prior to 12/12/2023.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

< = Not detected at the reporting limit
J = Reported value may not be accurate or precise
ng/L = Nanograms per liter
R = Unusable result
UJ = Not detected. Reporting limit may not be accurate or precise

Table 6-1
2018 Through 2023 Chemours Private Drinking Water Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Chemours Private Drinking Water Sources (Coordinates vary; see Figure 6-6)				
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
PFOA Dataset (2016 - 2023)*				
PFOA	2218	1298	< 1.4 - < 10	1.6 - 8600
Other PFAS Dataset (2022 - 2023)**				
11Cl-PF3OUdS	211	0	< 1.6 - < 9.1	
3:3 FTCA	141	0	< 6.7 - < 8.7	
4:2 FTS	141	0	< 5.3 - < 6.9	
5:3 FTCA	141	0	< 33 - < 43	
6:2 FTS	141	0	< 5.3 - < 6.9	
7:3 FTCA	141	0	< 33 - < 43	
8:2 FTS	141	1	< 5.3 - < 6.9	18
9Cl-PF3ONS	211	0	< 1.6 - < 9.1	
DONA	211	0	< 1.6 - < 91	
HFPO-DA	211	51	< 1.6 - < 91	1.7 - 210
NEtFOSA	141	0	< 1.3 - < 1.7	
NEtFOSAA	211	1	< 1.3 - < 91	1.8
NEtFOSE	141	0	< 13 - < 17	
NMeFOSA	141	0	< 1.3 - < 1.7	
NMeFOSAA	211	0	< 1.3 - < 91	
NMeFOSE	141	0	< 13 - < 17	
PFBA	141	75	< 5.4 - < 6.9	5.4 - 93
PFBS	211	93	< 1.3 - < 9.1	1.4 - 160
PFDA	211	1	< 1.3 - < 91	2.3
PFDoA	211	1	< 1.3 - < 91	1.8
PFDoS	141	0	< 1.3 - < 1.7	
PFDS	141	0	< 1.3 - < 1.7	
PFECA B	141	0	< 2.7 - < 3.5	
PFECA-A	141	0	< 2.7 - < 3.5	
PFECA-F	141	0	< 2.7 - < 3.5	
PFEESA	141	0	< 2.7 - < 3.5	
PFHpA	211	163	< 1.4 - < 91	1.5 - 120
PFHpS	141	1	< 1.3 - < 1.7	36
PFHxA	211	154	< 1.4 - < 91	1.4 - 190
PFHxS	211	56	< 1.3 - < 9.1	1.4 - 1000
PFNA	211	12	< 1.3 - < 91	1.4 - 16
PFNS	141	0	< 1.3 - < 1.7	
PFOS	211	47	< 1.3 - < 9.1	1.4 - 2700
PFOSA	141	30	< 1.3 - < 1.7	1.4 - 4.4
PFPA	141	56	< 2.7 - < 3.5	2.7 - 49
PFPeS	141	7	< 1.3 - < 1.7	1.5 - 140
PFTeA	211	0	< 1.3 - < 91	
PFTriA	211	0	< 1.3 - < 91	
PFUnA	211	0	< 1.3 - < 91	

* Results for private drinking water sampled and analyzed for PFOA since 6/21/2016 are included in this summary.
** Private drinking water was not analyzed for compounds other than PFOA until 4/26/2022. PFAS data after 4/26/2022 and the 3Q23 PFAS data are included in this summary.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

ng/L = Nanograms per liter
RL = Reporting limit

Table 6-2
2018 Through 2023 Public Water Supplies PFAS Summary Statistics
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Chemours Washington Works Plant

Vienna PSD 1 PT	**Latitude (Decimal):**	39.347763	**Longitude (Decimal):**	-81.54176
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.6 - < 2	
9Cl-PF3ONS	9	0	< 1.6 - < 2	
DONA	9	0	< 1.6 - < 2	
HFPO-DA	4	0	< 1.6 - < 1.9	
NEtFOSAA	9	0	< 1.6 - < 2	
NMeFOSAA	9	0	< 1.6 - < 2	
PFBS	9	9		13 - 22
PFDA	9	0	< 1.6 - < 2	
PFDoA	9	0	< 1.6 - < 2	
PFHpA	9	9		10 - 21
PFHxA	9	9		7.5 - 19
PFHxS	9	9		14 - 110
PFNA	9	0	< 1.6 - < 2	
PFOA	63	63		98 - 240
PFOS	9	9		1.9 - 5.2
PFTeA	9	0	< 1.6 - < 2	
PFTriA	9	0	< 1.6 - < 2	
PFUnA	9	0	< 1.6 - < 2	
Vienna PSD 3 PT	**Latitude (Decimal):**	39.32859	**Longitude (Decimal):**	-81.553
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.7 - < 2	
9Cl-PF3ONS	9	0	< 1.7 - < 2	
DONA	9	0	< 1.7 - < 2	
HFPO-DA	4	0	< 1.7 - < 1.8	
NEtFOSAA	9	0	< 1.7 - < 2	
NMeFOSAA	9	0	< 1.7 - < 2	
PFBS	9	9		9.4 - 17
PFDA	9	0	< 1.7 - < 2	
PFDoA	9	0	< 1.7 - < 2	
PFHpA	9	9		10 - 16
PFHxA	9	9		5.4 - 10
PFHxS	9	9		5.3 - 7.9
PFNA	9	0	< 1.7 - < 2	
PFOA	49	49		64 - 250
PFOS	9	0	< 1.7 - < 2	
PFTeA	9	0	< 1.7 - < 2	
PFTriA	9	0	< 1.7 - < 2	
PFUnA	9	0	< 1.7 - < 2	
Vienna PSD 2 PT	**Latitude (Decimal):**	39.309	**Longitude (Decimal):**	-81.55135
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.6 - < 2	
9Cl-PF3ONS	9	0	< 1.6 - < 2	
DONA	9	0	< 1.6 - < 2	
HFPO-DA	4	0	< 1.6 - < 1.9	
NEtFOSAA	9	0	< 1.6 - < 2	
NMeFOSAA	9	0	< 1.6 - < 2	
PFBS	9	9		8.4 - 12
PFDA	9	0	< 1.6 - < 2	
PFDoA	9	0	< 1.6 - < 2	
PFHpA	9	9		4.6 - 9.3
PFHxA	9	9		3.6 - 6.6
PFHxS	9	9		3.7 - 5.4
PFNA	9	0	< 1.6 - < 2	
PFOA	63	63		80 - 130
PFOS	9	0	< 1.6 - < 2	
PFTeA	9	0	< 1.6 - < 2	
PFTriA	9	0	< 1.6 - < 2	
PFUnA	9	0	< 1.6 - < 2	

Table 6-2
2018 Through 2023 Public Water Supplies PFAS Summary Statistics
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Belpre PSD PT	**Latitude (Decimal):**	39.275376	**Longitude (Decimal):**	-81.583895
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.6 - < 2	
9Cl-PF3ONS	9	0	< 1.6 - < 2	
DONA	9	0	< 1.6 - < 2	
HFPO-DA	9	9		2.3 - 3
NEtFOSAA	9	0	< 1.6 - < 2	
NMeFOSAA	9	0	< 1.6 - < 2	
PFBS	9	9		24 - 33
PFDA	9	0	< 1.6 - < 2	
PFDoA	9	0	< 1.6 - < 2	
PFHpA	9	9		20 - 25
PFHxA	9	9		23 - 31
PFHxS	9	9		35 - 52
PFNA	9	0	< 1.6 - < 2	
PFOA	64	64		300 - 500
PFOS	9	1	< 1.8 - < 2	1.6
PFTeA	9	0	< 1.6 - < 2	
PFTriA	9	0	< 1.6 - < 2	
PFUnA	9	0	< 1.6 - < 2	
Blennerhassett Island TWS PT	**Latitude (Decimal):**	39.273202	**Longitude (Decimal):**	-81.604056
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	8	0	< 1.6 - < 18	
9Cl-PF3ONS	8	0	< 1.6 - < 18	
DONA	8	0	< 1.6 - < 18	
HFPO-DA	3	0	< 1.6 - < 18	
NEtFOSAA	8	0	< 1.6 - < 18	
NMeFOSAA	8	0	< 1.6 - < 18	
PFBS	8	0	< 1.6 - < 18	
PFDA	8	0	< 1.6 - < 18	
PFDoA	8	0	< 1.6 - < 18	
PFHpA	8	7	< 18	5.1 - 39
PFHxA	8	6	< 1.6 - < 18	4.2 - 7
PFHxS	8	0	< 1.6 - < 18	
PFNA	8	0	< 1.6 - < 18	
PFOA	8	8		190 - 1400
PFOS	8	0	< 1.6 - < 18	
PFTeA	8	0	< 1.6 - < 18	
PFTriA	8	0	< 1.6 - < 18	
PFUnA	8	0	< 1.6 - < 18	
WW Site GAC PT	**Latitude (Decimal):**	39.27175	**Longitude (Decimal):**	-81.6566
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
10:2 FTS	1	0	< 0.9	
11Cl-PF3OUdS	10	0	< 0.37 - < 2	
4:2 FTS	1	0	< 0.9	
6:2 FTS	1	0	< 0.9	
8:2 FTS	1	0	< 1.8	
9Cl-PF3ONS	10	0	< 0.28 - < 2	
DONA	9	0	< 1.6 - < 2	
HFPO-DA	84	83	< 10	63 - 1900
Hydro-PS Acid	2	0	< 200	
NaDONA	1	0	< 0.28	
NEtFOSA	1	0	< 2.7	
NEtFOSAA	10	0	< 0.9 - < 2	
NEtFOSE	1	0	< 1.1	
NMeFOSA	1	0	< 2.7	
NMeFOSAA	10	0	< 0.9 - < 2	
NMeFOSE	1	0	< 0.9	
PEPA	2	0	< 200	
PFBA	1	1		11
PFBS	10	10		2 - 3.1
PFDA	10	0	< 0.81 - < 2	
PFDoA	10	0	< 0.45 - < 2	
PFDoS	1	0	< 0.27	
PFDS	1	0	< 0.54	
PFECA-G	2	0	< 200	
PFHpA	10	10		2.4 - 21
PFHpS	1	0	< 0.36	
PFHxA	10	10		2.3 - 15
PFHxDA	1	0	< 0.27	
PFHxS	10	1	< 1.6 - < 2	1.4
PFMOAA	2	0	< 200	
PFNA	10	3	< 1.6 - < 2	1.4 - 1.8
PFNS	1	0	< 0.54	
PFO2HxA	2	0	< 200	
PFO3OA	2	0	< 200	
PFO4DA	2	0	< 200	
PFO5DA	2	0	< 200	
PFOA	84	84		160 - 1100
PFODA	1	0	< 0.45	
PFOS	10	10		3.1 - 4.5
PFOSA	1	0	< 0.45	
PFPA	1	1		7.8
PFPeS	1	0	< 0.36	
PFTeA	10	0	< 0.27 - < 2	
PFTriA	10	0	< 0.36 - < 2	
PFUnA	10	0	< 0.36 - < 2	
PMPA	2	0	< 200	
PS Acid	2	0	< 200	

Table 6-2
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Little Hocking Water Association PSD PT	Latitude (Decimal):	39.281	Longitude (Decimal):	-81.6596
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	17	0	< 8.2 - < 9.7	
9Cl-PF3ONS	17	0	< 8.2 - < 9.7	
DONA	17	0	< 8.2 - < 9.7	
HFPO-DA	122	121	< 230	92 - 640
NEtFOSAA	17	0	< 8.2 - < 9.7	
NMeFOSAA	17	0	< 8.2 - < 9.7	
PFBS	17	0	< 8.2 - < 9.7	
PFDA	17	0	< 8.2 - < 9.7	
PFDoA	17	0	< 8.2 - < 9.7	
PFHpA	17	17		100 - 220
PFHxA	17	17		74 - 150
PFHxS	17	0	< 8.2 - < 9.7	
PFNA	17	0	< 8.2 - < 9.7	
PFOA	137	137		3500 - 8600
PFOS	17	0	< 8.2 - < 9.7	
PFTeA	17	0	< 8.2 - < 9.7	
PFTriA	17	0	< 8.2 - < 9.7	
PFUnA	17	0	< 8.2 - < 9.7	
Lubeck PSD PT	**Latitude (Decimal):**	39.2372208	**Longitude (Decimal):**	-81.686462
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.6 - < 1.9	
9Cl-PF3ONS	9	0	< 1.6 - < 1.9	
DONA	9	0	< 1.6 - < 1.9	
HFPO-DA	9	9		31 - 47
NEtFOSAA	9	0	< 1.6 - < 1.9	
NMeFOSAA	9	0	< 1.6 - < 1.9	
PFBS	9	9		3.2 - 4.5
PFDA	9	0	< 1.6 - < 1.9	
PFDoA	9	0	< 1.6 - < 1.9	
PFHpA	9	9		27 - 42
PFHxA	9	9		20 - 32
PFHxS	9	9		3.2 - 6.1
PFNA	9	0	< 1.6 - < 1.9	
PFOA	64	64		700 - 1800
PFOS	9	1	< 1.8 - < 1.9	1.6
PFTeA	9	0	< 1.6 - < 1.9	
PFTriA	9	0	< 1.6 - < 1.9	
PFUnA	9	0	< 1.6 - < 1.9	
Tuppers Plains PSD PT	**Latitude (Decimal):**	39.0821551	**Longitude (Decimal):**	-81.790741
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.6 - < 2	
9Cl-PF3ONS	9	0	< 1.6 - < 2	
DONA	9	0	< 1.6 - < 2	
HFPO-DA	5	0	< 1.6 - < 10	
NEtFOSAA	9	0	< 1.6 - < 2	
NMeFOSAA	9	0	< 1.6 - < 2	
PFBS	9	6	< 1.8 - < 1.9	1.8 - 2.3
PFDA	9	0	< 1.6 - < 2	
PFDoA	9	0	< 1.6 - < 2	
PFHpA	9	0	< 1.6 - < 2	
PFHxA	9	0	< 1.6 - < 2	
PFHxS	9	0	< 1.6 - < 2	
PFNA	9	0	< 1.6 - < 2	
PFOA	63	61	< 10	8.8 - 17
PFOS	9	0	< 1.6 - < 2	
PFTeA	9	0	< 1.6 - < 2	
PFTriA	9	0	< 1.6 - < 2	
PFUnA	9	0	< 1.6 - < 2	

Table 6-2
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Letart PSD PT	**Latitude (Decimal):**	38.8863869	**Longitude (Decimal):**	-81.938957
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.8 - < 2	
9Cl-PF3ONS	9	0	< 1.8 - < 2	
DONA	9	0	< 1.8 - < 2	
HFPO-DA	4	0	< 1.8 - < 1.9	
NEtFOSAA	9	0	< 1.8 - < 2	
NMeFOSAA	9	0	< 1.8 - < 2	
PFBS	9	0	< 1.8 - < 2	
PFDA	9	0	< 1.8 - < 2	
PFDoA	9	0	< 1.8 - < 2	
PFHpA	9	0	< 1.8 - < 2	
PFHxA	9	0	< 1.8 - < 2	
PFHxS	9	0	< 1.8 - < 2	
PFNA	9	0	< 1.8 - < 2	
PFOA	64	21	< 10	3.4 - 10
PFOS	9	0	< 1.8 - < 2	
PFTeA	9	0	< 1.8 - < 2	
PFTriA	9	0	< 1.8 - < 2	
PFUnA	9	0	< 1.8 - < 2	
Village of Pomeroy PSD PT	**Latitude (Decimal):**	39.0313144	**Longitude (Decimal):**	-82.025706
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	3	0	< 1.8 - < 1.9	
9Cl-PF3ONS	3	0	< 1.8 - < 1.9	
DONA	3	0	< 1.8 - < 1.9	
HFPO-DA	1	0	< 1.8	
NEtFOSAA	3	0	< 1.8 - < 1.9	
NMeFOSAA	3	0	< 1.8 - < 1.9	
PFBS	3	3		5.5 - 9.7
PFDA	3	0	< 1.8 - < 1.9	
PFDoA	3	1	< 1.8	1.9
PFHpA	3	0	< 1.8 - < 1.9	
PFHxA	3	0	< 1.8 - < 1.9	
PFHxS	3	3		1.8 - 2.6
PFNA	3	0	< 1.8 - < 1.9	
PFOA	22	6	< 1.8 - < 10	2.4 - 4.4
PFOS	3	0	< 1.8 - < 1.9	
PFTeA	3	0	< 1.8 - < 1.9	
PFTriA	3	1	< 1.8	2
PFUnA	3	0	< 1.8 - < 1.9	
Village of Pomeroy PSD PT	**Latitude (Decimal):**	39.0313144	**Longitude (Decimal):**	-82.025706
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	3	0	< 1.8 - < 1.9	
9Cl-PF3ONS	3	0	< 1.8 - < 1.9	
DONA	3	0	< 1.8 - < 1.9	
HFPO-DA	1	0	< 1.8	
NEtFOSAA	3	0	< 1.8 - < 1.9	
NMeFOSAA	3	0	< 1.8 - < 1.9	
PFBS	3	3		5.5 - 9.7
PFDA	3	0	< 1.8 - < 1.9	
PFDoA	3	1	< 1.8	1.9
PFHpA	3	0	< 1.8 - < 1.9	
PFHxA	3	0	< 1.8 - < 1.9	
PFHxS	3	3		1.8 - 2.6
PFNA	3	0	< 1.8 - < 1.9	
PFOA	22	6	< 1.8 - < 10	2.4 - 4.4
PFOS	3	0	< 1.8 - < 1.9	
PFTeA	3	0	< 1.8 - < 1.9	
PFTriA	3	1	< 1.8	2
PFUnA	3	0	< 1.8 - < 1.9	
Crab Creek PSD PT	**Latitude (Decimal):**	38.7636414	**Longitude (Decimal):**	-82.194275
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	9	0	< 1.8 - < 2	
9Cl-PF3ONS	9	0	< 1.8 - < 2	
DONA	9	0	< 1.8 - < 2	
HFPO-DA	4	0	< 1.8 - < 1.9	
NEtFOSAA	9	0	< 1.8 - < 2	
NMeFOSAA	9	0	< 1.8 - < 2	
PFBS	9	2	< 1.8 - < 2	2 - 2.2
PFDA	9	0	< 1.8 - < 2	
PFDoA	9	0	< 1.8 - < 2	
PFHpA	9	0	< 1.8 - < 2	
PFHxA	9	0	< 1.8 - < 2	
PFHxS	9	0	< 1.8 - < 2	
PFNA	9	0	< 1.8 - < 2	
PFOA	64	2	< 1.6 - < 10	1.8
PFOS	9	0	< 1.8 - < 2	
PFTeA	9	0	< 1.8 - < 2	
PFTriA	9	0	< 1.8 - < 2	
PFUnA	9	0	< 1.8 - < 2	

Included in this table are only the results finalized between 8/21/2018 and 12/12/2023.
Parkersburg Public Service District (PPSD) was not included in these summaries as there was only one sampling event for PFAS in the time frame evaluated. The data for that event can be found in Table 6-3.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

ng/L = nanograms per liter
RL = Reporting limit

Table 6-3
Recent Public Water Supplies PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	BELPSD-PT	CRABCREEK-PT	LETART-PT	LHWAPSD-PT	LPSD-PT	PPSDPT	PT (ON-SITE GAC)
Field Sample ID	GC1123-BELPSD-PT	GC1123-CRABCREEK-PT	GC1123-LETART-PT	GC112023-LHWA-PT	GC1123-LPSD-PT	1Q23-PPSDPT	GC1123-PT
Sample Date	11/13/2023	11/14/2023	11/14/2023	11/20/2023	11/13/2023	2/24/2023	11/13/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	< 2	< 1.9
9Cl-PF3ONS	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	< 2	< 1.9
DONA	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	< 2	< 1.9
HFPO-DA	2.6	--	--	460	35 J	< 2	63
NEtFOSAA	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	< 2	< 1.9
NMeFOSAA	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	< 2	< 1.9
PFBS	26	2.2	< 1.9	< 9.3	3.6 J	2.2	2.5
PFDA	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	< 2	< 1.9
PFDoA	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9 UJ	< 2	< 1.9
PFHpA	20	< 1.9	< 1.9	160	27 J	< 2	2.4
PFHxA	25	< 1.9	< 1.9	120	20 J	2.5	2.3
PFHxS	43	< 1.9	< 1.9	< 9.3	3.6	2.5	< 1.9
PFNA	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	< 2	< 1.9
PFOA	380	< 1.9	9.2	5800	980	72	160
PFOS	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	4.1	3.4
PFTeA	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	< 2	< 1.9
PFTriA	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9 UJ	< 2	< 1.9
PFUnA	< 1.9	< 1.9	< 1.9	< 9.3	< 1.9	< 2	< 1.9

Note that the most recent result available prior to 12/12/2023 for Parkersburg Public Service District (PPSD) was on 2/24/2023. Other locations contain data for more recent samples.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

-- = Not analyzed
< = Not detected at the reporting limit
J = Reported value may not be accurate or precise
ng/L = Nanograms per liter
UJ = Not detected. Reporting limit may not be accurate or precise

Table 6-3
Recent Public Water Supplies PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	SPBHITWS-PT	TPPSD-PT	VOPPT	VPSD1-PT	VPSD2-PT	VPSD3-PT
Field Sample ID	GC4Q23-SPBHITWS-PT	GC1123-TPPSD-PT	GC4Q23-VOP-PT	GC1123-VPSD1-PT	GC1123-VPSD2-PT	GC1123-VPSD3-PT
Sample Date	11/16/2023	11/14/2023	11/14/2023	11/13/2023	11/13/2023	11/13/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9
9Cl-PF3ONS	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9
DONA	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9
HFPO-DA	--	--	--	--	--	--
NEtFOSAA	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9
NMeFOSAA	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9
PFBS	< 1.8	2.3	9.7	13	8.5	13 J
PFDA	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9
PFDoA	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9 UJ
PFHpA	21	< 1.9	< 1.8	12	4.6	11 J
PFHxA	4.5	< 1.9	< 1.8	8.1	3.6	5.7 J
PFHxS	< 1.8	< 1.9	2.6	19	3.7	6.2
PFNA	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9
PFOA	760	9.8	4.4	140	89	120
PFOS	< 1.8	< 1.9	< 1.8	1.9	< 1.9	< 1.9
PFTeA	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9
PFTriA	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9 UJ
PFUnA	< 1.8	< 1.9	< 1.8	< 1.9	< 1.9	< 1.9

Note that the most recent result available prior to 12/12/2023 for Parkersburg Public Service District (PPSD) was on 2/24/2023. Other locations contain data for more recent samples.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

-- = Not analyzed
< = Not detected at the reporting limit
J = Reported value may not be accurate or precise
ng/L = Nanograms per liter
UJ = Not detected. Reporting limit may not be accurate or precise

Table 6-4
2002 Ohio River Water Sampling Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

River Water Investigations		Transect Location Description	Number of Sampling Points	Sample Depths	Total Number of Samples	Transect Number	Location on Transect	Sample Type	Sample ID		PFOA (µg/L)	PFOA (ng/L)	Date
Washington Works Facility	Upstream	26 Miles Upstream of the Washington Works Facility	1	Dip and Mid-column	2	1	center	mid-column	WWK-R-TS	1-2M	ND (<0.01)	ND (<10)	6/25/2002
						1	center	dip	WWK-R-TS	1-2S	ND (<0.01)	ND (<10)	6/25/2002
		10 Miles Upstream of the Washington Works Facility	1	Dip and Mid-column	2	2	center	mid-column	WWK-R-TS	2-2M	ND (<0.01)	ND (<10)	6/26/2002
						2	center	dip	WWK-R-TS	2-2S	ND (<0.01)	ND (<10)	6/26/2002
		Upstream of the Washington Works Facility - eastern end of Blennerhassett Island	1	Dip, Mid-column and Bottom	3	3	center	bottom	WWK-R-TS	3-2B	NQ (<0.05)	ND (<50)	10/17/2002
						3	center	mid-column	WWK-R-TS	3-2M	ND (<0.01)	ND (<10)	6/26/2002
						3	center	dip	WWK-R-TS	3-2S	ND (<0.01)	ND (<10)	6/26/2002
	Near Facility	Along Washington Works Facility - North of Outfall 001	3	Dip, Mid-column and Bottom	9	4	WV-side	bottom	WWK-R-TS	4-1B	ND (<0.01)	ND (<10)	6/28/2002
						4	WV-side	mid-column	WWK-R-TS	4-1M	ND (<0.01)	ND (<10)	6/28/2002
						4	WV-side	dip	WWK-R-TS	4-1S	ND (<0.01)	ND (<10)	6/28/2002
						4	center	bottom	WWK-R-TS	4-2B	ND (<0.01)	ND (<10)	6/28/2002
						4	center	mid-column	WWK-R-TS	4-2M	ND (<0.01)	ND (<10)	6/28/2002
						4	center	dip	WWK-R-TS	4-2S	ND (<0.01)	ND (<10)	6/28/2002
						4	OH-side	bottom	WWK-R-TS	4-3B	ND (<0.01)	ND (<10)	6/28/2002
						4	OH-side	mid-column	WWK-R-TS	4-3M	ND (<0.01)	ND (<10)	6/28/2002
						4	OH-side	dip	WWK-R-TS	4-3S	ND (<0.01)	ND (<10)	6/28/2002
		Along Washington Works Facility - East of Outfall 007	3	Dip, Mid-column and Bottom	9 +1 (DUP)	5	WV-side	bottom	WWK-R-TS	5-1B	ND (<0.01)	ND (<10)	6/27/2002
						5	WV-side	mid-column	WWK-R-TS	5-1M	ND (<0.01)	ND (<10)	6/27/2002
						5	WV-side	dip	WWK-R-TS	5-1S	NQ (<0.05)	ND (<50)	6/27/2002
						5	center	bottom	WWK-R-TS	5-2B	ND (<0.01)	ND (<10)	6/27/2002
						5	center	mid-column	WWK-R-TS	5-2M	ND (<0.01)	ND (<10)	6/27/2002
						5	center	dip	WWK-R-TS	5-2S	ND (<0.01)	ND (<10)	6/27/2002
						5	OH-side	bottom	WWK-R-TS	5-3B	ND (<0.01)	ND (<10)	6/27/2002
						5	OH-side	mid-column	WWK-R-TS	5-3M	ND (<0.01)	ND (<10)	6/27/2002
						5	OH-side	dip	WWK-R-TS	5-3S	ND (<0.01)	ND (<10)	6/27/2002
						5	OH-side	dip	WWK-R-TS	5-3S-2 (DUP)	ND (<0.01)	ND (<10)	6/27/2002
		Along Washington Works Facility - Downstream of Outfall 005	3	Dip, Mid-column and Bottom	9	6	WV-side	bottom	WWK-R-TS	6-1B	ND (<0.01)	ND (<10)	6/27/2002
						6	WV-side	mid-column	WWK-R-TS	6-1M	ND (<0.01)	ND (<10)	6/27/2002
						6	WV-side	dip	WWK-R-TS	6-1S	ND (<0.01)	ND (<10)	6/27/2002
						6	center	bottom	WWK-R-TS	6-2B	ND (<0.01)	ND (<10)	6/27/2002
						6	center	mid-column	WWK-R-TS	6-2M	ND (<0.01)	ND (<10)	6/27/2002
						6	center	dip	WWK-R-TS	6-2S	ND (<0.01)	ND (<10)	6/27/2002
						6	OH-side	bottom	WWK-R-TS	6-3B	NQ (<0.05)	ND (<50)	6/27/2002
						6	OH-side	mid-column	WWK-R-TS	6-3M	ND (<0.01)	ND (<10)	6/27/2002
						6	OH-side	dip	WWK-R-TS	6-3S	ND (<0.01)	ND (<10)	6/27/2002
	Downstream	1.5 Miles Downstream of the Washington Works Facility	2	Dip, Mid-column and Bottom	6 +1 (DUP)	7	WV-side	bottom	WWK-R-TS	7-1B	0.109	109	10/17/2002
						7	WV-side	mid-column	WWK-R-TS	7-1M	0.126	126	10/17/2002
						7	WV-side	dip	WWK-R-TS	7-1S	0.109	109	10/17/2002
						7	WV-side	dip	WWK-R-TS	7-1S-2 (DUP)	0.133	133	10/17/2002
						7	center	bottom	WWK-R-TS	7-2B	0.118	118	10/17/2002
						7	center	mid-column	WWK-R-TS	7-2M	0.0912	91.2	10/17/2002
						7	center	dip	WWK-R-TS	7-2S	0.0945	94.5	10/17/2002
		3 Miles Downstream of the Washington Works Facility	1	Dip and Mid-column	2	8	center	mid-column	WWK-R-TS	8-2M	0.96	960	7/10/2002
						8	center	dip	WWK-R-TS	8-2S	1.05	1050	7/10/2002
		10 Miles Downstream of the Washington Works Facility	1	Dip and Mid-column	2	9	center	mid-column	WWK-R-TS	9-2M	0.28	280	7/10/2002
						9	center	dip	WWK-R-TS	9-2S	0.286	286	7/10/2002
		18 Miles Downstream of the Washington Works Facility	1	Dip and Mid-column	2	10	center	mid-column	WWK-R-TS	10-2M	0.227	227	7/10/2002
						10	center	dip	WWK-R-TS	10-2S	0.23	230	7/10/2002

Table 6-4
2002 Ohio River Water Sampling Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

River Water Investigations		Transect Location Description	Number of Sampling Points	Sample Depths	Total Number of Samples	Transect Number	Location on Transect	Sample Type	Sample ID		PFOA (µg/L)	PFOA (ng/L)	Date
Letart Landfill	Near Landfill	Adjacent to the Letart Landfill	1	Dip and Mid-column	2	11	WV-side	mid-column	WWK-R-TS	11-1M	0.105	105	7/11/2002
						11	WV-side	dip	WWK-R-TS	11-1S	0.097	97	7/11/2002
	Downstream	Downstream of the Letart Landfill	1	Dip and Mid-column	2 + 1 (DUP)	12	WV-side	mid-column	WWK-R-TS	12-1M	0.0933	93.3	7/11/2002
						12	WV-side	dip	WWK-R-TS	12-1S	0.113	113	7/11/2002
						12	WV-side	dip	WWK-R-TS	12-1S-2 (DUP)	0.123	123	7/11/2002

* Note PFOA data reported in this table as ND (<0.01) is reported in the EIM database as (<0.05).

DUP = Duplicate sample
ND = Not detected at the limit of detection shown
ng/L = Nanograms per liter
NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable
µg/L = Micrograms per liter

Table 6-5
2011 Ohio River PFOA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

LOCATION	SAMPLE_NUMBER	DATESMPL	PFOA (µg/L)	PFOA (ng/L)
River Sampling Location 1	RIVERLOC1-MC	9/29/11	NQ (<0.0092)	NQ (9.2)
	RIVERLOC1-S	9/29/11	NQ (<0.0092)	NQ (9.2)
River Sampling Location 2	RIVERLOC2-MC	9/29/11	NQ (<0.0092)	NQ (9.2)
	RIVERLOC2-S	9/29/11	NQ (<0.0092)	NQ (9.2)
	RIVERLOC2-S-2	9/29/11	NQ (<0.0092)	NQ (9.2)
River Sampling Location 3	RIVERLOC3-MC	9/29/11	NQ (<0.0092)	NQ (9.2)
	RIVERLOC3-S	9/29/11	0.0093	9.3
River Sampling Location 4	RIVERLOC4A-MC	9/29/11	0.01	10
	RIVERLOC4A-S	9/29/11	0.011	11
	RIVERLOC4B-MC	9/29/11	0.011	11
	RIVERLOC4B-S	9/29/11	0.01	10
	RIVERLOC4C-MC	9/29/11	0.016	16
	RIVERLOC4C-S	9/29/11	0.012	12
River Sampling Location 5	RIVERLOC5A-MC	9/29/11	0.079	79
	RIVERLOC5A-S	9/29/11	0.2	200
	RIVERLOC5B-MC	9/29/11	0.01	10
	RIVERLOC5B-S	9/29/11	0.0096	9.6
River Sampling Location 6*	RIVERLOC6A-MC	10/24/11	0.011	11
	RIVERLOC6A-S	10/24/11	0.081	81
	RIVERLOC6B-MC	10/24/11	NQ (<0.0092)	NQ (9.2)
	RIVERLOC6B-S	10/24/11	NQ (<0.0092)	NQ (9.2)
River Sampling Location 7*	RIVERLOC7-MC	10/24/11	NQ (<0.0092)	NQ (9.2)
	RIVERLOC7-S	10/24/11	0.0098	9.8
River Sampling Location 8*	RIVERLOC8-MC	10/24/11	0.0095	9.5
	RIVERLOC8-S	10/24/11	0.01	10
River Sampling Location 9	RIVERLOC9-MC	9/28/11	0.025	25
	RIVERLOC9-S	9/28/11	0.03	30
River Sampling Location 10	RIVERLOC10-MC	9/28/11	0.033	33
	RIVERLOC10-S	9/28/11	0.024	24
River Sampling Location 11	RIVERLOC11-MC	9/28/11	0.041	41
	RIVERLOC11-S	9/28/11	0.045	45
River Sampling Location 12	RIVERLOC12-MC	9/28/11	0.051	51
	RIVERLOC12-S	9/28/11	0.051	51
River Sampling Location 13	RIVERLOC13-MC	9/27/11	0.024	24
	RIVERLOC13-S	9/27/11	0.022	22
River Sampling Location 14	RIVERLOC14-MC	9/27/11	0.026	26
	RIVERLOC14-S	9/27/11	0.029	29
River Sampling Location 15	RIVERLOC15-MC	9/27/11	0.024	24
	RIVERLOC15-S-2	9/27/11	0.023 J	23 J
	RIVERLOC15-S	9/27/11	0.029 J	29 J

* Original samples collected in September 2011 were lost in transit to the laboratory. Samples were recollected in October 2011.

J = Reported value may not be accurate or precise
MC = Mid-column
ng/L = Nanograms per liter
NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable
S = Surface or dip
µg/L = Micrograms per liter

Table 6-6
2022 Through 2023 Ohio River PFAS Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

OH River, Upstream	Latitude (Decimal):	39.268474	Longitude (Decimal):	-81.588495
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
Grab Samples				
11Cl-PF3OUdS	9	0	< 1.7 - < 7.04	
9Cl-PF3ONS	9	0	< 1.7 - < 7.04	
DONA	9	0	< 1.7 - < 7.04	
HFPO-DA	9	2	< 2.5 - < 7.04	3.8 - 4.8
NEtFOSAA	9	0	< 1.76 - < 2.7	
NMeFOSAA	9	0	< 1.7 - < 3.52	
PFBA	9	0	< 4.2 - < 7.04	
PFBS	9	7	< 1.76 - < 1.8	1.8 - 6.1
PFDA	9	0	< 1.7 - < 1.8	
PFDoA	9	0	< 1.7 - < 1.8	
PFHpA	9	0	< 1.7 - < 1.8	
PFHxA	9	4	< 1.7 - < 1.8	2 - 3.6
PFHxS	9	0	< 1.7 - < 1.8	
PFNA	9	0	< 1.7 - < 1.8	
PFOA	9	8	< 1.76	2.1 - 7.4
PFOS	9	4	< 1.7 - < 1.8	1.9 - 2.6
PFPA	9	3	< 1.7 - < 3.52	2.2 - 3.7
PFTeA	9	0	< 1.7 - < 1.8	
PFTriA	9	0	< 1.7 - < 1.8	
PFUnA	9	0	< 1.7 - < 1.8	
OH River, Downstream Middle	**Latitude (Decimal):**	39.243334	**Longitude (Decimal):**	-81.694079
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
Grab Samples				
11Cl-PF3OUdS	10	0	< 1.6 - < 7.16	
9Cl-PF3ONS	10	0	< 1.6 - < 7.16	
DONA	10	0	< 1.6 - < 7.16	
HFPO-DA	10	4	< 2.5 - < 7.16	3 - 7.7
NEtFOSAA	10	0	< 1.79 - < 2.7	
NMeFOSAA	10	0	< 1.6 - < 3.58	
PFBA	10	0	< 4.1 - < 7.16	
PFBS	10	8	< 1.7 - < 1.79	1.6 - 5.1
PFDA	10	0	< 1.6 - < 1.8	
PFDoA	10	0	< 1.6 - < 1.8	
PFHpA	10	0	< 1.6 - < 1.8	
PFHxA	10	5	< 1.6 - < 1.8	1.8 - 3.3
PFHxS	10	0	< 1.6 - < 1.8	
PFNA	10	0	< 1.6 - < 1.8	
PFOA	10	9	< 1.79	2.4 - 9
PFOS	10	5	< 1.7 - < 1.8	1.6 - 2.6
PFPA	10	5	< 1.6 - < 3.58	1.8 - 40
PFTeA	10	0	< 1.6 - < 1.8	
PFTriA	10	0	< 1.6 - < 1.8	
PFUnA	10	0	< 1.6 - < 1.8	
Surface Samples				
HFPO-DA	4	1	< 2.6 - < 7.05	4.8
PFOA	4	4		2.25 - 3.3
Middle Samples				
HFPO-DA	4	1	< 2.6 - < 7.04	9.6
PFOA	4	4		2.16 - 3.7
Bottom Samples				
HFPO-DA	4	1	< 2.6 - < 7.26	6.8
PFOA	4	4		2.07 - 3.4
OH River, Downstream East	**Latitude (Decimal):**	39.2436353	**Longitude (Decimal):**	-81.6922227
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
Surface Samples				
HFPO-DA	4	3	< 2.6	2.6 - 15.5
PFOA	4	4		2.8 - 8.14
Middle Samples				
HFPO-DA	4	2	< 2.6 - < 2.7	14 - 18.8
PFOA	4	4		2.6 - 8.88
Bottom Samples				
HFPO-DA	4	2	< 2.7	14 - 19.5
PFOA	4	4		2.7 - 8.88
OH River, Downstream West	**Latitude (Decimal):**	39.2433756	**Longitude (Decimal):**	-81.69624194
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
Surface Samples				
HFPO-DA	4	1	< 2.6 - < 6.95	9.6
PFOA	4	4		3.4 - 13.5
Middle Samples				
HFPO-DA	4	1	< 2.6 - < 7.15	6.3
PFOA	4	4		3.2 - 16.4
Bottom Samples				
HFPO-DA	4	1	< 2.5 - < 7.22	6.4
PFOA	4	4		3.2 - 15.8

Included in this table are the results finalized between 8/21/2018 and 12/12/2023.
Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

ng/L = Nanograms per liter
RL = Reporting limit

Table 6-7
February 2023 Ohio River PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	DOWNSTREAM	DWNMID	DWNMID	DWNMID	DWNEAST	DWNEAST
Field Sample ID	OHRV-020623-DOWNSTREAM-A	OHRV-020623-DWNMID-SUR	OHRV-020623-DWNMID-MID	OHRV-020623-DWNMID-BOT	OHRV-020623-DWNEAST-SUR	OHRV-020623-DWNEAST-MID
Sample Date	2/6/2023	2/6/2023	2/6/2023	2/6/2023	2/6/2023	2/6/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	< 7.16	--	--	--	--	--
9Cl-PF3ONS	< 7.16	--	--	--	--	--
DONA	< 7.16	--	--	--	--	--
HFPO-DA	< 7.16	< 7.05	< 7.04	< 7.26	15.5	18.8
NEtFOSAA	< 1.79	--	--	--	--	--
NMeFOSAA	< 3.58	--	--	--	--	--
PFBA	< 7.16	--	--	--	--	--
PFBS	< 1.79	--	--	--	--	--
PFDA	< 1.79	--	--	--	--	--
PFDoA	< 1.79	--	--	--	--	--
PFHpA	< 1.79	--	--	--	--	--
PFHxA	< 1.79	--	--	--	--	--
PFHxS	< 1.79	--	--	--	--	--
PFNA	< 1.79	--	--	--	--	--
PFOA	< 1.79	2.25	2.16	2.07	8.14	8.88
PFOS	< 1.79	--	--	--	--	--
PFPA	< 3.58	--	--	--	--	--
PFTeA	< 1.79	--	--	--	--	--
PFTriA	< 1.79	--	--	--	--	--
PFUnA	< 1.79	--	--	--	--	--

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

-- = Not analyzed
< = Not detected at the reporting limit
BOT = Bottom sample
MID = Middle sample
ng/L = Nanograms per liter
SUR = Surface sample

Table 6-7
February 2023 Ohio River PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Location ID	DWNEAST	DWNWEST	DWNWEST	DWNWEST	UPSTREAM
Field Sample ID	OHRV-020623-DWNEAST-BOT	OHRV-020623-DWNWEST-SUR	OHRV-020623-DWNWEST-MID	OHRV-020623-DWNWEST-BOT	OHRV-020623-UPSTREAM-A
Sample Date	2/6/2023	2/6/2023	2/6/2023	2/6/2023	2/6/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	--	--	--	--	< 7.04
9Cl-PF3ONS	--	--	--	--	< 7.04
DONA	--	--	--	--	< 7.04
HFPO-DA	19.5	< 6.95	< 7.15	< 7.22	< 7.04
NEtFOSAA	--	--	--	--	< 1.76
NMeFOSAA	--	--	--	--	< 3.52
PFBA	--	--	--	--	< 7.04
PFBS	--	--	--	--	< 1.76
PFDA	--	--	--	--	< 1.76
PFDoA	--	--	--	--	< 1.76
PFHpA	--	--	--	--	< 1.76
PFHxA	--	--	--	--	< 1.76
PFHxS	--	--	--	--	< 1.76
PFNA	--	--	--	--	< 1.76
PFOA	8.88	13.5	16.4	15.8	< 1.76
PFOS	--	--	--	--	< 1.76
PFPA	--	--	--	--	< 3.52
PFTeA	--	--	--	--	< 1.76
PFTriA	--	--	--	--	< 1.76
PFUnA	--	--	--	--	< 1.76

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

-- = Not analyzed
< = Not detected at the reporting limit
BOT = Bottom sample
MID = Middle sample
ng/L = Nanograms per liter
SUR = Surface sample

Table 6-8
2022 and 2023 EPA Regional Off-Site Surface-Water Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

EPA Regional Surface Water Sampling (Coordinates vary; see Figure 6-21)				
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/L)**	**Detection Range (ng/L)**
11Cl-PF3OUdS	42	0	< 9.38 - < 10.6	
3:3 FTCA	42	0	< 9.38 - < 10.6	
4:2 FTS	71	0	< 9.38 - < 10.6	
5:3 FTCA	42	0	< 9.38 - < 10.6	
6:2 FTS	71	0	< 9.38 - < 10.6	
6:2 FTUCA	42	0	< 9.38 - < 10.6	
7:3 FTCA	42	0	< 9.38 - < 10.6	
8:2 FTS	71	0	< 9.38 - < 10.6	
8:2 FTUCA	42	0	< 9.38 - < 10.6	
9Cl-PF3ONS	42	0	< 9.38 - < 10.6	
DONA	42	0	< 9.38 - < 10.6	
HFPO-DA	71	2	< 9.38 - < 10.6	10.5 - 19.4
HQ-115	42	2	< 9.38 - < 10.6	12.7 - 15.6
NEtFOSA	42	0	< 9.38 - < 10.6	
NEtFOSAA	71	0	< 9.38 - < 10.6	
NEtFOSE	42	0	< 9.38 - < 10.6	
NMeFOSA	42	0	< 9.38 - < 10.6	
NMeFOSAA	71	0	< 9.38 - < 10.6	
NMeFOSE	42	0	< 9.38 - < 10.6	
PFBA	71	0	< 46.9 - < 53.1	
PFBS	71	1	< 9.38 - < 10.6	15.2
PFDA	71	0	< 9.38 - < 10.6	
PFDoA	71	0	< 9.38 - < 10.6	
PFDoS	42	0	< 9.38 - < 10.6	
PFDS	71	0	< 9.38 - < 10.6	
PFECA B	42	0	< 9.38 - < 10.6	
PFECA-A	42	0	< 9.38 - < 10.6	
PFECA-F	42	0	< 9.38 - < 10.6	
PFEESA	42	0	< 9.38 - < 10.6	
PFHpA	71	2	< 9.38 - < 10.6	9.89 - 10.9
PFHpS	71	0	< 9.38 - < 10.6	
PFHxA	71	1	< 9.38 - < 10.6	38.8
PFHxS	71	0	< 9.38 - < 10.6	
PFNA	71	0	< 9.38 - < 10.6	
PFNS	71	0	< 9.38 - < 10.6	
PFOA	71	28	< 9.38 - < 10.6	11.4 - 447
PFOS	71	7	< 9.38 - < 10.4	9.69 - 48.9
PFOSA	71	0	< 9.38 - < 10.6	
PFPA	71	1	< 46.9 - < 53.1	97.9
PFPeS	71	0	< 9.38 - < 10.6	
PFTeA	71	2	< 9.38 - < 10.6	10.5 - 57
PFTriA	71	2	< 9.38 - < 10.6	13.2 - 17.4
PFUnA	71	0	< 9.38 - < 10.6	
PPF Acid	42	1	< 46.9 - < 53.1	52.6

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

ng/L = Nanograms per liter
RL = Reporting limit

Table 6-9
Recent Spring Water PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Reg. Loc. ID	952	882	809	831	877	985	860
Location ID	11301WaterFordRd	1310DixonRd	13448TickRidgeRd	14222MariettaRunRd	1433DixonRd-PT	16203FruitFarmRd	16235TelephoneTowerRd
Field Sample ID	0221-11301WaterFordRd	0319-1310DixonRd	0318-13448TickRidgeRd	0618-14222MariettaRunRd	GC3Q23-1433DixonRd-PT	1021-16203FruitFarmRd	1018-16235TelephoneTowerRd
Sample Date	2/12/2021	03/26/2019	03/26/2018	06/26/2018	08/01/2023	10/12/2021	10/19/2018
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	--	--	--	--	< 6.1	--	--
3:3 FTCA	--	--	--	--	< 7.6	--	--
4:2 FTS	--	--	--	--	< 6.1	--	--
5:3 FTCA	--	--	--	--	< 38	--	--
6:2 FTS	--	--	--	--	< 6.1	--	--
7:3 FTCA	--	--	--	--	< 38	--	--
8:2 FTS	--	--	--	--	< 6.1	--	--
9Cl-PF3ONS	--	--	--	--	< 6.1	--	--
DONA	--	--	--	--	< 6.1	--	--
HFPO-DA	--	--	--	--	< 6.1	--	--
NEtFOSA	--	--	--	--	< 1.5	--	--
NEtFOSAA	--	--	--	--	< 1.5	--	--
NEtFOSE	--	--	--	--	< 15	--	--
NMeFOSA	--	--	--	--	< 1.5	--	--
NMeFOSAA	--	--	--	--	< 1.5	--	--
NMeFOSE	--	--	--	--	< 15	--	--
PFBA	--	--	--	--	< 6.1	--	--
PFBS	--	--	--	--	9.9	--	--
PFDA	--	--	--	--	< 1.5	--	--
PFDoA	--	--	--	--	< 1.5	--	--
PFDoS	--	--	--	--	< 1.5	--	--
PFDS	--	--	--	--	< 1.5	--	--
PFECA B	--	--	--	--	< 3	--	--
PFECA-A	--	--	--	--	< 3	--	--
PFECA-F	--	--	--	--	< 3	--	--
PFEESA	--	--	--	--	< 3	--	--
PFHpA	--	--	--	--	6.3	--	--
PFHpS	--	--	--	--	< 1.5	--	--
PFHxA	--	--	--	--	6.6	--	--
PFHxS	--	--	--	--	< 1.5	--	--
PFNA	--	--	--	--	< 1.5	--	--
PFNS	--	--	--	--	< 1.5	--	--
PFOA	220	33	100	44	190	27	24
PFOS	--	--	--	--	< 1.5	--	--
PFOSA	--	--	--	--	3.8	--	--
PFPA	--	--	--	--	< 3	--	--
PFPeS	--	--	--	--	< 1.5	--	--
PFTeA	--	--	--	--	< 1.5	--	--
PFTriA	--	--	--	--	< 1.5	--	--
PFUnA	--	--	--	--	< 1.5	--	--

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

-- = Not analyzed
< = Not detected at the reporting limit
ng/L = Nanograms per liter
Reg. Loc. ID = Regulatory Location Identifier

Table 6-9
Recent Spring Water PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Reg. Loc. ID	786	987	868	953	976	810	975	811
Location ID	16355TickRidgeRd-PT	16990JoyRd	1718TornesRd	1735HendershotRd	19336StRt550	19511StRt550	19661StRt550	20262SandRockRd-PT
Field Sample ID	GC3Q23-16355TickRidgeRd-PT	1021-16990JoyRd	1118-1718TornesRd	0321-1735HendershotRd	0821-19336StRt550	0318-19511StRt550	0821-19661StRt550	GC3Q23-20262SandRockRd-PT
Sample Date	08/09/2023	10/12/2021	11/13/2018	03/04/2021	08/13/2021	03/26/2018	08/13/2021	08/15/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	< 6.2	--	--	--	--	--	--	< 5.4
3:3 FTCA	< 7.7	--	--	--	--	--	--	< 6.8
4:2 FTS	< 6.2	--	--	--	--	--	--	< 5.4
5:3 FTCA	< 39	--	--	--	--	--	--	< 34
6:2 FTS	< 6.2	--	--	--	--	--	--	< 5.4
7:3 FTCA	< 39	--	--	--	--	--	--	< 34
8:2 FTS	< 6.2	--	--	--	--	--	--	< 5.4
9Cl-PF3ONS	< 6.2	--	--	--	--	--	--	< 5.4
DONA	< 6.2	--	--	--	--	--	--	< 5.4
HFPO-DA	< 6.2	--	--	--	--	--	--	< 5.4
NEtFOSA	< 1.5	--	--	--	--	--	--	< 1.4
NEtFOSAA	< 1.5	--	--	--	--	--	--	< 1.4
NEtFOSE	< 15	--	--	--	--	--	--	< 14
NMeFOSA	< 1.5	--	--	--	--	--	--	< 1.4
NMeFOSAA	< 1.5	--	--	--	--	--	--	< 1.4
NMeFOSE	< 15	--	--	--	--	--	--	< 14
PFBA	< 6.2	--	--	--	--	--	--	< 5.4
PFBS	< 1.5	--	--	--	--	--	--	< 1.4
PFDA	< 1.5	--	--	--	--	--	--	< 1.4
PFDoA	< 1.5	--	--	--	--	--	--	< 1.4
PFDoS	< 1.5	--	--	--	--	--	--	< 1.4
PFDS	< 1.5	--	--	--	--	--	--	< 1.4
PFECA B	< 3.1	--	--	--	--	--	--	< 2.7
PFECA-A	< 3.1	--	--	--	--	--	--	< 2.7
PFECA-F	< 3.1	--	--	--	--	--	--	< 2.7
PFEESA	< 3.1	--	--	--	--	--	--	< 2.7
PFHpA	2.4	--	--	--	--	--	--	2.5
PFHpS	< 1.5	--	--	--	--	--	--	< 1.4
PFHxA	< 1.5	--	--	--	--	--	--	< 1.4
PFHxS	< 1.5	--	--	--	--	--	--	< 1.4
PFNA	< 1.5	--	--	--	--	--	--	< 1.4
PFNS	< 1.5	--	--	--	--	--	--	< 1.4
PFOA	51	< 10	78	190	38	< 10	< 10	110
PFOS	< 1.5	--	--	--	--	--	--	< 1.4
PFOSA	1.5	--	--	--	--	--	--	< 1.4
PFPA	< 3.1	--	--	--	--	--	--	< 2.7
PFPeS	< 1.5	--	--	--	--	--	--	< 1.4
PFTeA	< 1.5	--	--	--	--	--	--	< 1.4
PFTriA	< 1.5	--	--	--	--	--	--	< 1.4
PFUnA	< 1.5	--	--	--	--	--	--	< 1.4

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

-- = Not analyzed
< = Not detected at the reporting limit
ng/L = Nanograms per liter
Reg. Loc. ID = Regulatory Location Identifier

Table 6-9
Recent Spring Water PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Reg. Loc. ID	977	983	453	981	859	972	890.1	881
Location ID	21603StRt550	22845StRt550	25105WHornsbyRd	275StRt550	283SchwendemanRd-PT	3021BosnerRidgeRd	316OllochHillRd-PT	3415HickmanRd
Field Sample ID	0821-21603StRt550	0921-22845StRt550	0918-25105WHornsbyRd	0821-275StRt550	GC3Q23-283SchwendemanRd-PT	0721-3021BosnerRidgeRd	GC3Q23-316OllochHillRd-PT	0319-3415HickmanRd
Sample Date	08/13/2021	09/27/2021	09/25/2018	08/31/2021	08/11/2023	07/12/2021	08/15/2023	03/15/2019
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	--	--	--	--	< 5.6	--	< 5.5	--
3:3 FTCA	--	--	--	--	< 7	--	< 6.9	--
4:2 FTS	--	--	--	--	< 5.6	--	< 5.5	--
5:3 FTCA	--	--	--	--	< 35	--	< 35	--
6:2 FTS	--	--	--	--	< 5.6	--	< 5.5	--
7:3 FTCA	--	--	--	--	< 35	--	< 35	--
8:2 FTS	--	--	--	--	< 5.6	--	< 5.5	--
9Cl-PF3ONS	--	--	--	--	< 5.6	--	< 5.5	--
DONA	--	--	--	--	< 5.6	--	< 5.5	--
HFPO-DA	--	--	--	--	< 5.6	--	< 5.5	--
NEtFOSA	--	--	--	--	< 1.4	--	< 1.4	--
NEtFOSAA	--	--	--	--	< 1.4	--	< 1.4	--
NEtFOSE	--	--	--	--	< 14	--	< 14	--
NMeFOSA	--	--	--	--	< 1.4	--	< 1.4	--
NMeFOSAA	--	--	--	--	< 1.4	--	< 1.4	--
NMeFOSE	--	--	--	--	< 14	--	< 14	--
PFBA	--	--	--	--	7.1	--	< 5.5	--
PFBS	--	--	--	--	< 1.4	--	1.4	--
PFDA	--	--	--	--	< 1.4	--	< 1.4	--
PFDoA	--	--	--	--	< 1.4	--	< 1.4	--
PFDoS	--	--	--	--	< 1.4	--	< 1.4	--
PFDS	--	--	--	--	< 1.4	--	< 1.4	--
PFECA B	--	--	--	--	< 2.8	--	< 2.8	--
PFECA-A	--	--	--	--	< 2.8	--	< 2.8	--
PFECA-F	--	--	--	--	< 2.8	--	< 2.8	--
PFEESA	--	--	--	--	< 2.8	--	< 2.8	--
PFHpA	--	--	--	--	5.3	--	11	--
PFHpS	--	--	--	--	< 1.4	--	< 1.4	--
PFHxA	--	--	--	--	5.2	--	6.4	--
PFHxS	--	--	--	--	< 1.4	--	< 1.4	--
PFNA	--	--	--	--	< 1.4	--	< 1.4	--
PFNS	--	--	--	--	< 1.4	--	< 1.4	--
PFOA	27	20	160	36	240	77	250	20
PFOS	--	--	--	--	< 1.4	--	< 1.4	--
PFOSA	--	--	--	--	3	--	< 1.4	--
PFPA	--	--	--	--	< 2.8	--	< 2.8	--
PFPeS	--	--	--	--	< 1.4	--	< 1.4	--
PFTeA	--	--	--	--	< 1.4	--	< 1.4	--
PFTriA	--	--	--	--	< 1.4	--	< 1.4	--
PFUnA	--	--	--	--	< 1.4	--	< 1.4	--

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

-- = Not analyzed
< = Not detected at the reporting limit
ng/L = Nanograms per liter
Reg. Loc. ID = Regulatory Location Identifier

Table 6-9
Recent Spring Water PFAS Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Reg. Loc. ID	852	851	865	794	857	722	793
Location ID	345BrownriggRd	4595MuskingumRiverRd	521PlumRunRd	554CurryRd-PT	747SchwendemanRd-PT	7601StRt144-PT	805CurryRd-PT
Field Sample ID	0818-345BrownriggRd	0519-4595MuskingumRiverRd	1118-521PlumRunRd	GC3Q23-554CurryRd-PT	GC3Q23-747SchwendemanRd-PT	GC3Q23-7601StRt144-PT	GC3Q23-805CurryRd-PT
Sample Date	08/23/2018	05/17/2019	11/12/2018	08/11/2023	08/15/2023	08/08/2023	09/01/2023
Compound	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)	Report Result (ng/L)
11Cl-PF3OUdS	--	--	--	< 5.5	< 6.5	< 5.4	< 5.7
3:3 FTCA	--	--	--	< 6.9	< 8.1	< 6.7	< 7.1
4:2 FTS	--	--	--	< 5.5	< 6.5	< 5.4	< 5.7 UJ
5:3 FTCA	--	--	--	< 35	< 40	< 33	< 35
6:2 FTS	--	--	--	< 5.5	< 6.5	< 5.4	< 5.7
7:3 FTCA	--	--	--	< 35	< 40	< 33	< 35
8:2 FTS	--	--	--	< 5.5	< 6.5	< 5.4	< 5.7
9Cl-PF3ONS	--	--	--	< 5.5	< 6.5	< 5.4	< 5.7
DONA	--	--	--	< 5.5	< 6.5	< 5.4	< 5.7
HFPO-DA	--	--	--	< 5.5	< 6.5	< 5.4	< 5.7
NEtFOSA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
NEtFOSAA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
NEtFOSE	--	--	--	< 14	< 16	< 13	< 14
NMeFOSA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
NMeFOSAA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
NMeFOSE	--	--	--	< 14	< 16	< 13	< 14
PFBA	--	--	--	< 5.5	15	< 5.4	< 5.7
PFBS	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFDA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFDoA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFDoS	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFDS	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFECA B	--	--	--	< 2.8	< 3.2	< 2.7	< 2.8
PFECA-A	--	--	--	< 2.8	< 3.2	< 2.7	< 2.8
PFECA-F	--	--	--	< 2.8	< 3.2	< 2.7	< 2.8
PFEESA	--	--	--	< 2.8	< 3.2	< 2.7	< 2.8
PFHpA	--	--	--	1.9	9.5	5	3.1
PFHpS	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFHxA	--	--	--	< 1.4	8.5	1.4	2
PFHxS	--	--	--	< 1.4	1.9	< 1.3	< 1.4
PFNA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFNS	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFOA	550	48	87	62	450	130	150
PFOS	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFOSA	--	--	--	2	< 1.6	< 1.3	< 1.4
PFPA	--	--	--	< 2.8	4.1	< 2.7	< 2.8
PFPeS	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFTeA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFTriA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4
PFUnA	--	--	--	< 1.4	< 1.6	< 1.3	< 1.4

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

-- = Not analyzed
< = Not detected at the reporting limit
ng/L = Nanograms per liter
Reg. Loc. ID = Regulatory Location Identifier

Table 6-10
2022 and 2023 EPA Regional Off-Site Sediment Summary Statistics
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

EPA Regional Sediment Sampling (Coordinates vary; see Figure 6-21)				
Compound	**Number of Analyses**	**Number of Detections >RL**	**Nondetect RL Range (ng/kg)**	**Detection Range (ng/kg)**
4:2 FTS	18	0	< 22.8 - < 77.2	
6:2 FTS	18	0	< 22.8 - < 77.2	
8:2 FTS	18	0	< 22.8 - < 77.2	
HFPO-DA	18	2	< 22.8 - < 77.2	51.2 - 102
NEtFOSAA	18	0	< 22.8 - < 77.2	
NMeFOSAA	18	0	< 22.8 - < 77.2	
PFBA	18	0	< 114 - < 386	
PFBS	18	1	< 22.8 - < 77.2	90.9
PFDA	18	1	< 22.8 - < 77.2	89.3
PFDoA	18	1	< 22.8 - < 66.8	102
PFDS	18	0	< 22.8 - < 77.2	
PFHpA	18	1	< 22.8 - < 77.2	64
PFHpS	18	0	< 22.8 - < 77.2	
PFHxA	18	0	< 45.5 - < 154	
PFHxS	18	0	< 22.8 - < 77.2	
PFNA	18	3	< 22.8 - < 77.2	54.4 - 141
PFNS	18	0	< 22.8 - < 77.2	
PFOA	18	14	< 25.5 - < 31.7	41.3 - 774
PFOS	18	12	< 36.8 - < 92.7	33 - 259
PFOSA	18	0	< 22.8 - < 77.2	
PFPA	18	0	< 114 - < 386	
PFPeS	18	0	< 22.8 - < 77.2	
PFTeA	18	0	< 22.8 - < 77.2	
PFTriA	18	1	< 22.8 - < 66.8	77.2
PFUnA	18	5	< 22.8 - < 66.8	30.2 - 206

Refer to Table 1-1 for a list of PFAS full names for the abbreviations used in this table.

ng/kg = Nanograms per kilogram
RL = Reporting limit

Table 6-11
2002 LHWA Temporary Boring Groundwater Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Name		Depth (ft bgs)	Sample Date	PFOA (µg/L)	PFOA (ng/L)	Comments
WWO-G-	LHWAN1	(17-22)	8/29/2002	48.8	48800	first water encountered
WWO-G-	LHWANE1	(21-27)*	8/20/2002	5.36	5360	first water encountered
WWO-G-	LHWANE1	(56-58)	8/22/2002	0.636	636	bottom of sand and gravel
WWO-G-	LHWANE2	(20.7-25.7)	8/30/2002	1.23	1230	first water encountered
WWO-G-	LHWAE1	(21-26)	8/30/2002	0.4	400	first water encountered
WWO-G-	LHWAS1	(25-30)	8/28/2002	<0.05	<50	first water encountered
WWO-G-	LHWAS2	(25-30)	8/27/2002	75	75000	first water encountered
WWO-G-	LHWASW1	(28.5-33)	8/23/2002	0.0876	87.6	first water encountered
WWO-G-	LHWASW1	(35-40)*	8/26/2002	1.27	1270	every 5 ft groundwater sample
WWO-G-	LHWASW1	(40-45)	8/26/2002	0.98	980	every 5 ft groundwater sample
WWO-G-	LHWASW1	(45-50)	8/28/2002	0.361 J	361 J	every 5 ft groundwater sample
WWO-G-	LHWASW1	(50-55)	8/28/2002	0.159	159	every 5 ft groundwater sample
WWO-G-	LHWASW1	(55-56)*	8/28/2002	0.244	244	bottom of sand and gravel
WWO-G-	LHWAW1	(29-34)	8/29/2002	<0.05	<50	first water encountered
WWO-G-	LHWAW2	(33-38)	8/29/2002	3.22	3220	first water encountered
WWO-G-	LHWANW1	(19-25)	8/29/2002	33.2	33200	first water encountered
WWO-G-	LHWANW1	(24-29)	8/29/2002	5.7	5700	top of sand and gravel
WWO-G-	LHWANW1	(24-29)-2(DUP)	8/29/2002	5.98	5980	top of sand and gravel

* Sample split with the Ohio EPA.

DUP = Duplicate
ft bgs = Feet below ground surface
J = Reported value may not be accurate or precise
ng/L = Nanograms per liter
µg/L = Micrograms per liter

Table 6-12
2002 and 2006 LHWA Test Well Groundwater Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Active Sampling Locations					
Location	**Sample ID**	**Sample Date**	**PFOA (µg/L)**	**PFOA (ng/L)**	**Comments**
Little Hocking, OH	LHPSDTW1	1/22/2002	2.07	2070	Test well
	LHPSDTW1	8/22/2002	0.78	780	Test well
	LHPSDTW1	5/15/2006	4.55	4550	Test well
	LHPSDTW2	1/22/2002	0.0989	98.9	Test well
	LHPSDTW2	8/22/2002	0.0774	77.4	Test well
	LHPSDTW3	1/22/2002	4.3	4300	Test well
	LHPSDTW3	8/22/2002	4.01	4010	Test well
	LHPSDTW3	5/15/2006	11.4	11400	Test well
	LHPSDTW4	1/22/2002	35.6	35600	Test well
	LHPSDTW4	3/26/2002	32	32000	Test well
	LHPSDTW4	4/23/2002	27.6	27600	Test well
	LHPSDTW4	8/23/2002	11.8	11800	Test well
	LHPSDTW4	10/16/2002	13.9	13900	Test well
	LHPSDTW4	2/26/2003	21.6	21600	Test well
	LHPSDTW4	5/28/2003	32.2	32200	Test Well
	LHPSDTW4	5/28/2003	32	32000	Duplicate
	LHPSDTW4	8/29/2003	21.7	21700	Test well
	LHPSDTW4	8/29/2003	22	22000	Duplicate
	LHPSDTW4	5/15/2006	5.58	5580	Test well
	LHPSDTW5	8/23/2002	6.01	6010	Test well
	LHPSDTW5	5/15/2006	14.6	14600	Test well
	LHPSDTW6	1/22/2002	1.72	1720	Test well
	LHPSDTW6	8/22/2002	1.18	1180	Test well
	LHPSDTW6	8/22/2002	1.1	1100	Duplicate
	LHPSDTW6	5/17/2006	2.98	2980	Test well
	LHPSDTW6S	5/17/2006	1.11	1110	Test well
	LHPSDTW9	1/22/2002	0.35	350	Test well
	LHPSDTW9	8/22/2002	0.78	780	Test well
	LHPSDTW9	5/15/2006	1.04	1040	Test well
	LHPSDTW10	1/21/2002	1.8	1800	Test well
	LHPSDTW10	8/22/2002	1.1	1100	Test well
	LHPSDTW10	5/16/2006	4.82	4820	Test well
	LHPSDTW11	1/21/2002	1.35	1350	Test well
	LHPSDTW11	8/21/2002	1.66	1660	Test well
	LHPSDTW11	5/15/2006	9.02	9020	Test well
	LHPSDTW12	1/21/2002	0.728	728	Test well
	LHPSDTW12	8/21/2002	0.792	792	Test well
	LHPSDTW12	5/16/2006	1.71	1710	Test well
	LHPSDTW12S	5/16/2006	14.9	14900	Test well
	LHPSDTW13D	4/11/2006	0.0763	76.3	Temporary well point sample
	LHPSDTW13D	4/11/2006	0.0762	76.2	Duplicate, Temporary well point sample
	LHPSDTW13D	5/16/2006	0.388	388	Test well
	LHPSDTW13S	5/16/2006	68.1	68100	Test well
	LHPSDTW14D	4/6/2006	1.14	1140	Temporary well point sample
	LHPSDTW14D	5/16/2006	1.61	1610	Test well
	LHPSDTW14S	5/16/2006	51.8	51800	Test well
	TW15D-TWP	3/30/2006	0.228	228	Temporary well point sample
	TW15D-TWP	5/16/2006	1.47	1470	Test well
	TW15D-TWP	5/16/2006	1.37	1370	Duplicate
	TW15S-TWP	5/16/2006	28.6	28600	Test well

Results up to and including samples taken on 5/17/2006 are included.

ng/L = Nanograms per liter
µg/L = Micrograms per liter

Table 6-13
2002 LHWA Temporary Boring Soil Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Name and Depth (ft bgs)		Sample Date	PFOA (µg/kg)	PFOA (mg/kg)	Comments
WWO-S-	LHWASW1 (.3-.9)	8/23/2002	160 J	0.160 J	surface soil
WWO-S-	LHWASW1 (5.0-5.6)	8/23/2002	12 J	0.012 J	every 5 ft soil sample
WWO-S-	LHWASW1 (11.2-11.7)	8/23/2002	3.3 J	0.0033 J	every 5 ft soil sample
WWO-S-	LHWASW1 (15.5-16.0)	8/23/2002	3.2 J	0.0032 J	every 5 ft soil sample
WWO-S-	LHWASW1 (22.1-22.6)	8/23/2002	NQ (<2.5 J)	NQ (<2.5 J)	every 5 ft soil sample
WWO-S-	LHWASW1 (26.5-27.0)	8/23/2002	<0.18 UJ	<0.00018 UJ	every 5 ft soil sample
WWO-S-	LHWASW1 (30.0-30.5)	8/23/2002	<0.18 UJ	<0.00018 UJ	geologic interface
WWO-S-	LHWASW1 (30.5-31.0)	8/23/2002	<0.19 UJ	<0.00019 UJ	geologic interface
WWO-S-	LHWASW1 (37.0-37.5)	8/26/2002	NQ (<2.6)	NQ (<0.0026)	lithology change
WWO-S-	LHWASW1 (37.5-38.0)	8/26/2002	<0.19	<0.00019	lithology change
WWO-S-	LHWASW1 (44.3-44.5)	8/26/2002	NQ (<2.8)	NQ (<0.0028)	every 5 ft soil sample, charcoal layer
WWO-S-	LHWASW1 (47.5-48.0)	8/26/2002	<0.18	<0.00018	every 5 ft soil sample
WWO-S-	LHWASW1 (53.5-54.0)	8/28/2002	<0.18	<0.00018	every 5 ft soil sample
WWO-S-	LHWASW1 (53.5-54.0)-2	8/28/2002	<0.17	<0.00017	every 5 ft soil sample, duplicate
WWO-S-	LHWASW1 (55.5-56.0)	8/28/2002	<0.17	<0.00017	every 5 ft soil sample
WWO-S-	LHWANW1 (0.1-0.5)	8/29/2002	110	0.11	surface soil
WWO-S-	LHWANW1 (5.0-5.5)	8/29/2002	5.9	0.0059	every 5 ft soil sample
WWO-S-	LHWANW1 (10.0-10.5)	8/29/2002	7.2	0.0072	every 5 ft soil sample
WWO-S-	LHWANW1 (15.0-15.5)	8/29/2002	6.6	0.0066	every 5 ft soil sample
WWO-S-	LHWANW1 (20.0-20.5)	8/29/2002	16	0.016	geologic interface
WWO-S-	LHWANW1 (21.0-21.5)	8/29/2002	17	0.017	geologic interface
WWO-S-	LHWANW1 (25.0-25.5)	8/29/2002	8.1	0.0081	every 5 ft soil sample

ft bgs = Feet below ground surface
J = Compound present, reported value may not be accurate or precise
mg/kg = Milligrams per kilogram
ND = Not detected at the listed method detection limit (MDL)
NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable
ND<MDL<NQ<RL
RL = Limit of quantitation (LOQ) adjusted for actual sample weight and % moisture. Nominal LOQ = 2 µg/kg
µg/kg = Micrograms per kilogram
UJ = Not detected, the LOQ may be inaccurate or imprecise

Table 6-14
2006 LHWA Soil and Subsurface Soil Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Well ID	Top Depth (ft)	Bottom Depth (ft)	PFOA (µg/kg)	PFOA (mg/kg)	*LOD (µg/kg)	*LOQ (µg/kg)	Sample Name and Depth (ft bgs)	Sample Date
TW6S	0	0.25	25	0.025	0.74	3.7	WWO-S-LHWA(0-0.25)-TW6S	4/12/2006
	0.25	0.5	29	0.029	0.61	3	WWO-S-LHWA(0.25-0.5)-TW6S	4/12/2006
	0.5	1	27	0.027	0.58	2.9	WWO-S-LHWA(0.5-1.0)-TW6S	4/12/2006
	1	7	32	0.032	0.63	3.1	WWO-S-LHWA(1-7)-TW6S	4/12/2006
	6	7	11	0.011	0.58	2.9	WWO-S-LHWA(6-7)-TW6S	4/12/2006
	7	12	3.2	0.0032	0.59	3	WWO-S-LHWA(7-12)-TW6S	4/12/2006
	11	12	2.9	0.0029	0.58	2.9	WWO-S-LHWA(11-12)-TW6S	4/12/2006
	12	17	3.9	0.0039	0.61	3.1	WWO-S-LHWA(12-17)-TW6S	4/12/2006
	16	17	3.8	0.0038	0.58	2.9	WWO-S-LHWA(16-17)-TW6S	4/12/2006
	17	22	ND	ND	0.59	2.9	WWO-S-LHWA(17-22)-TW6S	4/12/2006
	21	22	ND	ND	0.59	3	WWO-S-LHWA(21-22)-TW6S	4/12/2006
	22	27	NQ	NQ	0.6	3	WWO-S-LHWA(22-27)-TW6S	4/12/2006
	26	27	NQ	NQ	0.6	3	WWO-S-LHWA(26-27)-TW6S	4/12/2006
	27	32	ND	ND	0.62	3.1	WWO-S-LHWA(27-32)-TW6S	4/12/2006
	30.2	30.2	ND	ND	0.65	3.2	WWO-S-LHWA(30.2)-TW6S	4/12/2006
	31	32	ND	ND	0.59	3	WWO-S-LHWA(31-32)-TW6S	4/12/2006
	32	35	ND	ND	0.63	3.1	WWO-S-LHWA(32-35)-TW6S	4/12/2006
TW12S	0	0.25	31	0.031	0.59	3	WWO-S-LHWA(0-0.25)-TW12S	4/13/2006
	0.25	0.5	34	0.034	0.57	2.9	WWO-S-LHWA(0.25-0.5)-TW12S	4/13/2006
	0.5	1	35	0.035	0.57	2.9	WWO-S-LHWA(0.5-1.0)-TW12S	4/13/2006
	1	7	12	0.012	0.57	2.8	WWO-S-LHWA(1-7)-TW12S	4/13/2006
	6	7	8	0.008	0.56	2.8	WWO-S-LHWA(6-7)-TW12S	4/13/2006
	7	12	3.4	0.0034	0.57	2.8	WWO-S-LHWA(7-12)-TW12S	4/13/2006
	11	12	4.1	0.0041	0.56	2.8	WWO-S-LHWA(11-12)-TW12S	4/13/2006
	12	17	7.6	0.0076	0.56	2.8	WWO-S-LHWA(12-17)-TW12S	4/13/2006
	15.3	15.3	8.2	0.0082	0.57	2.9	WWO-S-LHWA(15.3)-TW12S	4/13/2006
	16	17	15	0.015	0.56	2.8	WWO-S-LHWA(16-17)-TW12S	4/13/2006
	17	22	8	0.008	0.58	2.9	WWO-S-LHWA(17-22)-TW12S	4/13/2006
	21	22	11	0.011	0.6	3	WWO-S-LHWA(21-22)-TW12S	4/13/2006
	22	25	7	0.007	0.59	3	WWO-S-LHWA(22-25)-TW12S	4/13/2006
	22	25	6.9	0.0069	0.58	2.9	WWO-S-LHWA(22-25)-TW12S-2	4/13/2006
TW13S	0	0.25	48	0.048	0.62	3.1	WWO-S-LHWA(0-0.25)-TW13S	4/12/2006
	0.25	0.5	48	0.048	0.71	3.5	WWO-S-LHWA(0.25-0.5)-TW13S	4/12/2006
	0.5	1	43	0.043	0.58	2.9	WWO-S-LHWA(0.5-1.0)-TW13S	4/12/2006

Table 6-14
2006 LHWA Soil and Subsurface Soil Results
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Well ID	Top Depth (ft)	Bottom Depth (ft)	PFOA (µg/kg)	PFOA (mg/kg)	*LOD (µg/kg)	*LOQ (µg/kg)	Sample Name and Depth (ft bgs)	Sample Date
TW13S cont.	1	7	15	0.015	0.57	2.9	WWO-S-LHWA(1-7)-TW13S	4/12/2006
	6	7	15	0.015	0.56	2.8	WWO-S-LHWA(6-7)-TW13S	4/12/2006
	7	12	10	0.01	0.58	2.9	WWO-S-LHWA(7-12)-TW13S	4/12/2006
	11	12	9.9	0.0099	0.59	3	WWO-S-LHWA(11-12)-TW13S	4/12/2006
	12	17	12	0.012	0.57	2.9	WWO-S-LHWA(12-17)-TW13S	4/12/2006
	16	17	12	0.012	0.58	2.9	WWO-S-LHWA(16-17)-TW13S	4/12/2006
	17	22	14	0.014	0.58	2.9	WWO-S-LHWA(17-22)-TW13S	4/12/2006
	21	22	14	0.014	0.57	2.9	WWO-S-LHWA(21-22)-TW13S	4/12/2006
	22	27	19	0.019	0.58	2.9	WWO-S-LHWA(22-27)-TW13S	4/12/2006
	26	27	21	0.021	0.62	3.1	WWO-S-LHWA(26-27)-TW13S	4/12/2006
	27	32	9.3	0.0093	0.61	3	WWO-S-LHWA(27-32)-TW13S	4/12/2006
	27	32	4.8	0.0048	0.59	3.0	WWO-S-LHWA(27-32)-TW13S-2	4/12/2006
	27.9	27.9	17	0.017	0.62	3.1	WWO-S-LHWA(27.9)-TW13S	4/12/2006
	31	32	3.9	0.0039	0.59	3.0	WWO-S-LHWA(31-32)-TW13S	4/12/2006
	32	37	ND	ND	0.6	3	WWO-S-LHWA(32-37)-TW13S	4/12/2006
	36	37	ND	ND	0.62	3.1	WWO-S-LHWA(36-37)-TW13S	4/12/2006
TW13D	0	0.25	34	0.034	0.76	3.8	WWO-S-LHWA(0-0.25')-TW13D	4/10/2006
	0.25	0.5	45	0.045	0.63	3.1	WWO-S-LHWA(0.25'-0.5')-TW13D	4/10/2006
	0.5	1	43	0.043	0.58	2.9	WWO-S-LHWA(0.5'-1.0')-TW13D	4/10/2006
	1	7	15	0.015	0.56	2.8	WWO-S-LHWA(1'-7')-TW13D	4/10/2006
	6	7	16	0.016	0.56	2.8	WWO-S-LHWA(6'-7')-TW13D	4/10/2006
	7	12	8.2	0.0082	0.57	2.9	WWO-S-LHWA(7'-12')-TW13D	4/10/2006
	11	12	9	0.009	0.6	3	WWO-S-LHWA(11'-12')-TW13D	4/10/2006
	12	17	7.3	0.0073	0.57	2.9	WWO-S-LHWA(12'-17')-TW13D	4/10/2006
	16	17	6.8	0.0068	0.58	2.9	WWO-S-LHWA(16'-17')-TW13D	4/10/2006
	17	22	NQ	NQ	0.58	2.9	WWO-S-LHWA(17'-22')-TW13D	4/10/2006
	21	22	ND	ND	0.58	2.9	WWO-S-LHWA(21'-22')-TW13D	4/10/2006
	22	27	NQ	NQ	0.58	2.9	WWO-S-LHWA(22'-27')-TW13D	4/10/2006
	26	27	6.1	0.0061	0.59	2.9	WWO-S-LHWA(26'-27')-TW13D	4/10/2006
	27	27	10	0.01	0.61	3.1	WWO-S-LHWA(27')-TW13D	4/10/2006
	27	32	NQ	NQ	0.6	3	WWO-S-LHWA(27'-32')-TW13D	4/10/2006
	31	32	NQ	NQ	0.59	3	WWO-S-LHWA(31'-32')-TW13D	4/10/2006
	32	37	ND	ND	0.59	2.9	WWO-S-LHWA(32'-37')-TW13D	4/10/2006
	36	37	NQ	NQ	0.64	3.2	WWO-S-LHWA(36'-37')-TW13D	4/10/2006

Table 6-14
2006 LHWA Soil and Subsurface Soil Results
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Well ID	Top Depth (ft)	Bottom Depth (ft)	PFOA (µg/kg)	PFOA (mg/kg)	*LOD (µg/kg)	*LOQ (µg/kg)	Sample Name and Depth (ft bgs)	Sample Date
TW13D cont.	44.4	44.4	NQ	NQ	0.58	2.9	WWO-S-LHWA(44.4')-TW13D	4/10/2006
	54	59	ND	ND	0.49	2.5	WWO-S-LHWA(54'-59')-TW13D	4/10/2006
TW14S	0	0.25	40	0.04	0.63	3.1	WWO-S-LHWA(0-0.25')-TW14S	4/7/2006
	0.25	0.5	40	0.04	0.58	2.9	WWO-S-LHWA(0.25'-0.5')-TW14S	4/7/2006
	0.5	1	34	0.034	0.55	2.8	WWO-S-LHWA(0.5'-1.0')-TW14S	4/7/2006
	1	7	11	0.011	0.57	2.8	WWO-S-LHWA(1'-7')-TW14S	4/10/2006
	6	7	5.8	0.0058	0.55	2.7	WWO-S-LHWA(6'-7')-TW14S	4/10/2006
	7	12	7.2	0.0072	0.56	2.8	WWO-S-LHWA(7'-12')-TW14S	4/10/2006
	11	12	9.8	0.0098	0.57	2.9	WWO-S-LHWA(11'-12')-TW14S	4/10/2006
	12	17	8	0.008	0.56	2.8	WWO-S-LHWA(12'-17')-TW14S	4/10/2006
	16	17	7.2	0.0072	0.56	2.8	WWO-S-LHWA(16'-17')-TW14S	4/10/2006
	17	22	12	0.012	0.57	2.8	WWO-S-LHWA(17'-22')-TW14S	4/10/2006
	18.3	18.3	10	0.01	0.56	2.8	WWO-S-LHWA(18.3')-TW14S	4/10/2006
	21	22	18	0.018	0.61	3	WWO-S-LHWA(21'-22')-TW14S	4/10/2006
TW14D	0	0.25	51	0.051	0.36	1.9	WWO-S-LHWA(0-0.25)-TW14D	4/5/2006
	0.25	0.5	38	0.038	0.36	1.8	WWO-S-LHWA(0.25-0.5)-TW14D	4/5/2006
	0.5	1	29	0.029	0.31	1.6	WWO-S-LHWA(0.5-1.0)-TW14D	4/5/2006
	1	7	9.3	0.0093	0.31	1.6	WWO-S-LHWA(1-7)-TW14D	4/5/2006
	6	7	18	0.018	0.29	1.5	WWO-S-LHWA(6-7)-TW14D	4/5/2006
	7	12	11	0.011	0.30	1.6	WWO-S-LHWA(7-12)-TW14D	4/5/2006
	11	12	9.3	0.0093	0.30	1.6	WWO-S-LHWA(11-12)-TW14D	4/5/2006
	12	17	9	0.009	0.30	1.6	WWO-S-LHWA(12-17)-TW14D	4/5/2006
	15.3	15.3	14	0.014	0.30	1.6	WWO-S-LHWA(15.3)-TW14D	4/5/2006
	16	17	11	0.011	0.30	1.6	WWO-S-LHWA(16-17)-TW14D	4/5/2006
	17	22	16	0.016	0.32	1.7	WWO-S-LHWA(17-22)-TW14D	4/5/2006
	21.3	21.3	6.5	0.0065	0.31	1.6	WWO-S-LHWA(21.3)-TW14D	4/5/2006
	22	27	NQ	NQ	0.32	1.6	WWO-S-LHWA(22-27)-TW14D	4/5/2006
	50.2	55.2	NQ	NQ	0.27	1.4	WWO-S-LHWA(50.2-55.2)-TW14D	4/5/2006
TW15S	0	0.25	50	0.05	0.36	1.9	WWO-S-LHWA(0-0.25)-TW15S	4/4/2006
	0.25	0.5	71	0.071	0.33	1.7	WWO-S-LHWA(0.25-0.5)-TW15S	4/4/2006
	0.5	1	74	0.074	0.30	1.6	WWO-S-LHWA(0.5-1.0)-TW15S	4/4/2006
	1	7	24	0.024	0.32	1.7	WWO-S-LHWA(1-7)-TW15S	4/4/2006
	6	7	20	0.02	0.32	1.7	WWO-S-LHWA(6-7)-TW15S	4/4/2006
	7	12	ND	ND	0.30	1.6	WWO-S-LHWA(7-12)-TW15S	4/4/2006

Table 6-14
2006 LHWA Soil and Subsurface Soil Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Well ID	Top Depth (ft)	Bottom Depth (ft)	PFOA (µg/kg)	PFOA (mg/kg)	*LOD (µg/kg)	*LOQ (µg/kg)	Sample Name and Depth (ft bgs)	Sample Date
TW15S cont.	11	12	ND	ND	0.30	1.6	WWO-S-LHWA(11-12)-TW15S	4/4/2006
	12	17	ND	ND	0.30	1.6	WWO-S-LHWA(12-17)-TW15S	4/4/2006
	12.3	12.3	ND	ND	0.30	1.6	WWO-S-LHWA(12.3)-TW15S	4/4/2006
	16	17	ND	ND	0.30	1.6	WWO-S-LHWA(16-17)-TW15S	4/4/2006
	17	22	5.1	0.0051	0.32	1.6	WWO-S-LHWA(17-22)-TW15S	4/4/2006
	17.9	17.9	NQ	NQ	0.31	1.6	WWO-S-LHWA(17.9)-TW15S	4/4/2006
	21	22	6.7	0.0067	0.32	1.6	WWO-S-LHWA(21-22)-TW15S	4/4/2006
TW15D	0	0.25	37	0.037	0.38	2.0	WWO-S-LHWA(0'-0.25')-TW15D	3/29/2006
	0.25	0.5	36	0.036	0.33	1.7	WWO-S-LHWA(0.25'-0.5')-TW15D	3/29/2006
	0.5	1	34	0.034	0.31	1.6	WWO-S-LHWA(0.5'-1.0')-TW15D	3/29/2006
	1	7	26	0.026	0.31	1.6	WWO-S-LHWA(1.0'-7')-TW15D	3/29/2006
	6	7	3.2	0.0032	0.31	1.6	WWO-S-LHWA(6'-7')-TW15D	3/29/2006
	7	12	2.5	0.0025	0.31	1.6	WWO-S-LHWA(7'-12')-TW15D	3/29/2006
	11	12	4.4	0.0044	0.31	1.6	WWO-S-LHWA(11'-12')-TW15D	3/29/2006
	12	17	2.7	0.0027	0.31	1.6	WWO-S-LHWA(12'-17')-TW15D	3/29/2006
	15.1	15.1	1.8	0.0018	0.31	1.6	WWO-S-LHWA(15.1')-TW15D	3/29/2006
	16	17	1.9	0.0019	0.31	1.6	WWO-S-LHWA(16'-17')-TW15D	3/29/2006
	17	22	5.9	0.0059	0.32	1.7	WWO-S-LHWA(17'-22')-TW15D	3/29/2006
	21	22	8.4	0.0084	0.32	1.7	WWO-S-LHWA(21'-22')-TW15D	3/29/2006
	23.9	23.9	7.2	0.0072	0.31	1.6	WWO-S-LHWA(23.9')-TW15D	3/29/2006
	41.8	41.8	ND	ND	0.32	1.7	WWO-S-LHWA(41.8')-TW15D	3/29/2006
	43.7	48.7	NQ	NQ	0.31	1.6	WWO-S-LHWA(43.7'-48.7')-TW15D	3/29/2006
	45.9	45.9	NQ	NQ	0.31	1.6	WWO-S-LHWA(45.9')-TW15D	3/29/2006

* Starting in July 2005, Limit of Detection (LOD) and Limit of Quantitiation (LOQ) were determined on at least a quarterly basis using the signal to noise determination described in the Phase II QAPP. ND = Not detected at or above the LOD.

ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram
ND = Not detected at the limit of detection shown
NQ = Not quantifiable. Detected at a concentration above the LOD and below the LOQ
µg/kg = Micrograms per kilogram

Table 6-15
2005 Off-Site Soil and Grass "Dry" Event Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Depth	NumSamps	Units	Avg PFOA	Min PFOA	Max PFOA
0-1"	22	µg/kg (dry weight basis)	19.52	NQ (<5.5)	118
		mg/kg (dry weight basis)	0.01952	NQ (<0.0055)	0.118
1-6"	22	µg/kg (dry weight basis)	23.92	NQ (<5.5)	63.2
		mg/kg (dry weight basis)	0.02392	NQ (<0.0055)	0.0632

State	Sample Identification and Depth (inches bgs)	PFOA Reported (µg/kg, dry weight basis)	PFOA Reported (mg/kg, dry weight basis)
Ohio	WWO-S-Station (1) 0-1"	NQ (<6.0)	NQ (<0.0060)
	WWO-S-Station (1) 1-6"	NQ (<5.5)	NQ (<0.0055)
	WWO-S-Station (1)	0	0
	WWO-S-Station (2) 0-1"	12.3	0.0123
	WWO-S-Station (2) 1-6"	19.2	0.0192
	WWO-S-Station (2)	0	0
	WWO-S-Station (3) 0-1"	10.6	0.0106
	WWO-S-Station (3) 1-6"	8.07	0.00807
	WWO-S-Station (3)	0	0
	WWO-S-Station (4) 0-1"	29.3	0.0293
	WWO-S-Station (4) 1-6"	39.3	0.0393
	WWO-S-Station (4)	0	0
	WWO-S-Station (5A) 0-1"	14.4	0.0144
	WWO-S-Station (5A) 1-6"	33	0.033
	WWO-S-Station (5A)	0	0
	WWO-S-Station (5B) 0-1"	17.3	0.0173
	WWO-S-Station (5B) 1-6"	33.6	0.0336
	WWO-S-Station (5B)	0	0
	WWO-S-Station (5C) 0-1"	18.2	0.0182
	WWO-S-Station (5C) 1-6"	37.4	0.0374
	WWO-S-Station (5C)	0	0
	WWO-S-Station (5D) 0-1"	22.8	0.0228
	WWO-S-Station (5D) 1-6"	63.2	0.0632
	WWO-S-Station (5D)	0	0
	WWO-S-Station (6) 0-1"	9.74	0.00974
	WWO-S-Station (6) 1-6"	13.1	0.0131
	WWO-S-Station (6)	0	0
	WWO-S-Station (7) 0-1"	9.81	0.00981
	WWO-S-Station (7) 1-6"	13.5	0.0135
	WWO-S-Station (7)	0	0
	WWO-S-Station (10A) 0-1"	12.2	0.0122
	WWO-S-Station (10A) 1-6"	25.6	0.0256
	WWO-S-Station (10A)	0	0
	WWO-S-Station (10B) 0-1"	7.9	0.0079
	WWO-S-Station (10B) 1-6"	22.8	0.0228
	WWO-S-Station (10B)	0	0
	WWO-S-Station (10C) 0-1"	11.4	0.0114
	WWO-S-Station (10C) 1-6"	25.6	0.0256
	WWO-S-Station (10C)	0	0

Table 6-15
2005 Off-Site Soil and Grass "Dry" Event Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

State	Sample Identification and Depth (inches bgs)	PFOA Reported (µg/kg, dry weight basis)	PFOA Reported (mg/kg, dry weight basis)
West Virginia	WWK-S-Station (8) 0-1"	118	0.118
	WWK-S-Station (8) 1-6"	52.2	0.0522
	WWK-S-Station (8)	0	0
	WWK-S-Station (9) 0-1"	NQ (<5.5)	NQ (<0.0055)
	WWK-S-Station (9) 1-6"	12.3	0.0123
	WWK-S-Station (9)	0	0
	WWK-S-Station (11) 0-1"	6.35	0.00635
	WWK-S-Station (11) 1-6"	6.85	0.00685
	WWK-S-Station (11)	0	0
	WWK-S-Station (12) 0-1"	53.1	0.0531
	WWK-S-Station (12) 1-6"	25.7	0.0257
	WWK-S-Station (12)	0	0
	WWK-S-Station (13) 0-1"	24.5	0.0245
	WWK-S-Station (13) 1-6"	44.5	0.0445
	WWK-S-Station (13)	0	0
	WWK-S-Station (14) 0-1"	17.7	0.0177
	WWK-S-Station (14) 1-6"	21.6	0.0216
	WWK-S-Station (14)	0	0
	WWK-S-Station (15) 0-1"	6.88	0.00688
	WWK-S-Station (15) 1-6"	10.2	0.0102
	WWK-S-Station (15)	0	0
	WWK-S-Station (16) 0-1"	NQ (<5.5)	NQ (<0.0055)
	WWK-S-Station (16) 1-6"	NQ (<5.5)	NQ (<0.0055)
	WWK-S-Station (16)	0	0
	WWK-S-Station (18) 0-1"	NQ (<10)	NQ (<0.010)
	WWK-S-Station (18) 1-6"	NQ (<7.5)	NQ (<0.0075)
	WWK-S-Station (18)	0	0

Notes for summary data at the top of the table:
Field duplicate results were not averaged with parent sample results. Field duplicates were treated as separate samples.
Half of the limit of detection (LOD) was used to calculate the average PFOA result if result was a not detect (ND).
The limit of quantitation (LOQ) was used to calculate the average PFOA result if result was not quantifiable (NQ).
If the minimum result was ND or NQ, ND or NQ was listed, not half the LOD or the LOQ.

inches bgs = Inches below ground surface
mg/kg = Milligrams per kilogram
NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable
ug/kg = micrograms per kilogram

Table 6-16
2005 Off-Site Soil and Grass "Wet" Event Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Depth	NumSamps	Units	Min PFOA	Max PFOA
0-1"	22	µg/kg (dry weight basis)	NQ (<5.0)	46.6
		mg/kg (dry weight basis)	NQ (<0.0050)	0.0466
1-6"	22	µg/kg (dry weight basis)	5.91	52.8
		mg/kg (dry weight basis)	0.00591	0.0528

State	Sample Identification and Depth (inches bgs)	PFOA Reported (µg/kg, dry weight basis)	PFOA Reported (mg/kg, dry weight basis)
Ohio	WWO-S-Station (1) W 0-1"	NQ (<5.0)	NQ (<0.0050)
	WWO-S-Station (1) W 1-6"	NQ (<7.5)	NQ (<0.0075)
	WWO-S-Station (2) W 0-1"	16.8	0.0168
	WWO-S-Station (2) W 1-6"	21.4	0.0214
	WWO-S-Station (3) W 0-1"	12.5	0.0125
	WWO-S-Station (3) W 1-6"	8.85	0.00885
	WWO-S-Station (4) W 0-1"	22.5	0.0225
	WWO-S-Station (4) W 1-6"	27.3	0.0273
	WWO-S-Station (5A) W 0-1"	18.7	0.0187
	WWO-S-Station (5A) W 1-6"	51.6	0.0516
	WWO-S-Station (5B) W 0-1"	15.6	0.0156
	WWO-S-Station (5B) W 1-6"	32.2	0.0322
	WWO-S-Station (5C) W 0-1"	17	0.017
	WWO-S-Station (5C) W 1-6"	43.3	0.0433
	WWO-S-Station (5D) W 0-1"	20.4	0.0204
	WWO-S-Station (5D) W 1-6"	52.8	0.0528
	WWO-S-Station (6) W 0-1"	7.74	0.00774
	WWO-S-Station (6) W 1-6"	5.91	0.00591
	WWO-S-Station (7) W 0-1"	12.6	0.0126
	WWO-S-Station (7) W 1-6"	14.9	0.0149
	WWO-S-Station (10A) W 0-1"	12.8	0.0128
	WWO-S-Station (10A) W 1-6"	28.2	0.0282
	WWO-S-Station (10B) W 0-1"	8.25	0.00825
	WWO-S-Station (10B) W 1-6"	13.5	0.0135
	WWO-S-Station (10C) W 0-1"	NQ (<7.0)	NQ (<0.0070)
	WWO-S-Station (10C) W 1-6"	13.9	0.0139
West Virginia	WWK-S-Station (8) W 0-1"	121	0.121
	WWK-S-Station (8) W 1-6"	47.8	0.0478
	WWK-S-Station (9) W 0-1"	23.6	0.0236
	WWK-S-Station (9) W 1-6"	19.7	0.0197
	WWK-S-Station (11) W 0-1"	NQ (<7.0)	NQ (<0.0070)
	WWK-S-Station (11)W 1-6"	NQ (<7.0)	NQ (<0.0070)
	WWK-S-Station (12) W 0-1"	46.6	0.0466
	WWK-S-Station (12) W 1-6"	39.2	0.0392

Table 6-16
2005 Off-Site Soil and Grass "Wet" Event Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

State	Sample Identification and Depth (inches bgs)	PFOA Reported (µg/kg, dry weight basis)	PFOA Reported (mg/kg, dry weight basis)
West Virginia cont.	WWK-S-Station (13) W 0-1"	22	0.022
	WWK-S-Station (13) W 1-6"	50.9	0.0509
	WWK-S-Station (14) W 0-1"	9.31	0.00931
	WWK-S-Station (14) W 1-6"	10.6	0.0106
	WWK-S-Station (15) W 0-1"	NQ (<7.0)	NQ (<0.0070)
	WWK-S-Station (15) W 1-6"	9.58	0.00958
	WWK-S-Station (16) W 0-1"	NQ (<7.5)	NQ (<0.0075)
	WWK-S-Station (16) W 1-6"	NQ (<8.5)	NQ (<0.0085)
	WWK-S-Station (18) W 0-1"	NQ (<5.5)	NQ (<0.0055)
	WWK-S-Station (18) W 1-6"	NQ (<8.5)	NQ (<0.0085)

Notes for summary data at the top of the table:

Field duplicate results were not averaged with parent sample results. Field duplicates were treated as separate samples.
Half of the limit of detection (LOD) was used to calculate the average PFOA result if result was a not detect (ND).
The limit of quantitation (LOQ) was used to calculate the average PFOA result if result was not quantifiable (NQ).
If the minimum result was ND or NQ, ND or NQ was listed, not half the LOD or the LOQ.

inches bgs = Inches below ground surface
NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable
mg/kg = Milligrams per kilogram
µg/kg = Micrograms per kilogram

Table 6-17
2005 Small Mammal Sampling Soil and Grass Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Identification and Depth (inches bgs)	Media	PFOA Reported (µg/kg, dry weight basis)	PFOA Reported (mg/kg, dry weight basis)	pH
WWO-VEG-SM-LH-1	grass	51.6	0.0516	
WWO-SOIL-SM-LH-1 0-1"	soil	43.7	0.0437	
WWO-SOIL-SM-LH-1 1-3"	soil	85.1	0.0851	6.2
WWO-VEG-SM-B-2 *	grass	ND (<1.0)	ND (<0.0010)	
WWK-SOIL-SM-B-2 0-1"	soil	ND (<1.7)	ND (<0.0017)	
WWK-SOIL-SM-B-2 1-3"	soil	ND (<1.7)	ND (<0.0017)	6.3
WWO-VEG-SM-B-3	grass	ND (<1.0)	ND (<0.0010)	
WWK-SOIL-SM-B-3 0-1"	soil	ND (<1.0)	ND (<0.0010)	
WWK-SOIL-SM-B-3 1-3"	soil	ND (<1.0)	ND (<0.0010)	7.2
WWO-VEG-SM-B-4	grass	ND (<1.0)	ND (<0.0010)	
WWK-SOIL-SM-B-4 0-1"	soil	ND (<1.0)	ND (<0.0010)	
WWK-SOIL-SM-B-4 1-3"	soil	ND (<1.0)	ND (<0.0010)	5.6

inches bgs = Inches below ground surface
mg/kg = Milligrams per kilogram
ND = Not detected at the limit of detection shown
TOC = Total organic carbon
µg/kg = Micrograms per kilogram

Table 6-18
2011 Ohio, West Virginia and Background Location Soil Sampling
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

LOCATION		SAMPLE_NUMBER, Depth (ft bgs)	DATESMPL	PFOA (µg/kg)	PFOA (mg/kg)
Ohio	OH-1	WWO-S-OH-1(0-0.5)	8/2/2011	3.5	0.0035
	OH-1	WWO-S-OH-1(0-0.5)-2	8/2/2011	3.3	0.0033
	OH-2	WWO-S-OH-2(0-0.5)	8/3/2011	2.3	0.0023
	OH-3	WWO-S-OH-3(0-0.5)	8/3/2011	5.2	0.0052
	OH-4	WWO-S-OH-4(0-0.5)	8/2/2011	1.9	0.0019
	OH-5	WWO-S-OH-5(0-0.5)	8/3/2011	4.5	0.0045
	OH-6	WWO-S-OH-6(0-0.5)	8/3/2011	8.0	0.008
	OH-7	WWO-S-OH-7(0-0.5)	8/10/2011	10	0.01
	OH-8	WWO-S-OH-8(0-0.5)	8/3/2011	2.8	0.0028
	OH-9	WWO-S-OH-9(0-0.5)	8/12/2011	16	0.016
	OH-10	WWO-S-OH-10(0-0.5)	8/4/2011	6.4	0.0064
	OH-11	WWO-S-OH-11(0-0.5)	8/11/2011	11	0.011
	OH-12	WWO-S-OH-12(0-0.5)	8/3/2011	3.7	0.0037
	OH-13	WWO-S-OH-13(0-0.5)	8/10/2011	2.5	0.0025
	OH-14	WWO-S-OH-14(0-0.5)	8/4/2011	1.7	0.0017
	OH-15	WWO-S-OH-15(0-0.5)	8/12/2011	17.6	0.0176
	OH-16	WWO-S-OH-16(0-0.5)	8/9/2011	11.6	0.0116
	OH-16	WWO-S-OH-16(0-0.5)-2	8/9/2011	12	0.012
	OH-17	WWO-S-OH-17(0-0.5)	8/4/2011	3.3	0.0033
	OH-18	WWO-S-OH-18(0-0.5)	8/10/2011	1.6	0.0016
	OH-19	WWO-S-OH-19(0-0.5)	8/4/2011	NQ (<1.9)	NQ (<0.0019)
West Virginia	WV-1	WWK-S-WV-1(0-0.5)	8/4/2011	3.8	0.0038
	WV-2	WWK-S-WV-2(0-0.5)	8/4/2011	2.3	0.0023
	WV-2	WWK-S-WV-2(0-0.5)-2	8/4/2011	2.1	0.0021
	WV-3	WWK-S-WV-3(0-0.5)	8/9/2011	33	0.033
	WV-4	WWK-S-WV-4(0-0.5)	8/9/2011	2.1	0.0021
	WV-5	WWK-S-WV-5(0-0.5)	8/8/2011	NQ (<1.6)	NQ (<0.0016)
	WV-6	WWK-S-WV-6(0-0.5)	8/9/2011	2.7	0.0027
	WV-7	WWK-S-WV-7(0-0.5)	8/9/2011	1.8	0.0018
	WV-8	WWK-S-WV-8(0-0.5)	8/10/2011	NQ (<1.5)	NQ (<0.0015)
	WV-9	WWK-S-WV-9(0-0.5)	8/9/2011	1.7	0.0017
	WV-10	WWK-S-WV-10(0-0.5)	8/8/2011	1.7	0.0017
Maryland	Background	WWK-S-WWM-1(0-.2)	10/24/2011	ND (<0.983)	ND (<0.000983)

ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram
ND = Not detected at the limit of detection shown
NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable
µg/kg = Micrograms per kilogram

Table 6-19
2005 and 2011 Comparison of Co-Located Soil PFOA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample ID and Depth (inches bgs)	Date Sampled	PFOA (ug/kg)	PFOA (mg/kg)
WWO-S-Station (4) 0-1"	9/12/2005	29.3	0.0293
WWO-S-Station (4) 1-6"	9/12/2005	39.3	0.0393
WWO-S-Station (4) W 0-1"	10/21/2005	22.5	0.0225
WWO-S-Station (4) W 1-6"	10/21/2005	27.3	0.0273
OH-11	8/11/11	11	0.011
WWO-S-Station (6) 0-1"	9/12/2005	9.74	0.00974
WWO-S-Station (6) 1-6"	9/12/2005	13.1	0.0131
WWO-S-Station (6) W 0-1"	10/21/2005	7.74	0.00774
WWO-S-Station (6) W 1-6"	10/21/2005	5.91	0.00591
OH-12	8/3/11	3.7	0.0037
WWK-S-Station (8) 0-1"	9/12/2005	118	0.118
WWK-S-Station (8) 1-6"	9/12/2005	52.2	0.0522
WWK-S-Station (8) W 1-6"	10/21/2005	47.8	0.0478
WWK-S-Station (8) W 0-1"	10/21/2005	121	0.121
WV-3	8/9/11	33	0.033
WWK-S-Station (15) 0-1"	9/12/2005	6.88	0.00688
WWK-S-Station (15) 1-6"	9/12/2005	10.2	0.0102
WWK-S-Station (15) W 0-1"	10/21/2005	NQ (<7.0)	NQ (<0.0070)
WWK-S-Station (15) W 1-6"	10/21/2005	9.58	0.00958
WV-2	8/4/11	2.3	0.0023

inches bgs = Inches below ground surface
mg/kg = Milligrams per kilogram
NQ = Not quantifiable at the limit of quantification shown
µg/kg = Micrograms per kilogram

Table 6-20
2005 Ambient Air OVS Tubes PFOA Sampling Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Location[1,2]	Event 1 (ng/m^3)	Event 2 (ng/m^3)	Event 5[3] (ng/m^3)	Event 6 (ng/m^3)	Event 7 (ng/m^3)	Event 8 (ng/m^3)	Event 9 (ng/m^3)
Station 1A	0.71	ND[4]	ND	2.7	NQ[5]	ND	ND
Station 1B	0.63	No sample[6]	ND	2.9	NQ	ND	ND
Station 2A	O.82	ND	ND	2.6	1.2	ND	ND
Station 2B	0.77	No sample	NQ	1.4	NQ	ND	ND
Station 4A	ND	2.7	ND	NQ	ND	ND	ND
Station 4B	ND	No sample	NQ	ND	ND	ND	No Runtime Data[7]
Station 5A	NQ	0.6	NQ	ND	ND	ND	4.3
Station 5B	NQ	0.61	NQ	NQ	ND	ND	4.3
Station 6A	ND	1.5	ND	ND	ND	ND	4.8
Station 6B	ND	No sample	No Runtime Data	NQ	ND	ND	4.2
Station 7A	ND	ND	NQ	1.2	1.8	ND	ND
Station 7B	ND	ND	ND	1.3	1.8	NQ	ND
Station 8A	ND	ND	2.2	ND	ND	ND	ND
Station 8B	ND	No sample	2.1	ND	NQ	ND	ND
Station 9A	ND	NQ	NQ	ND	ND	ND	ND
Station 9B	ND	No sample	NQ	ND	ND	ND	ND
Station 10A	33.7	25.1	26.6	25.7	31.5	36.8	60.2
Station 10B	34.8	23.9	2.04	23.3	26.8	ND	58.6

1. Co-located tubes were installed at each location as samples “A” and “B”.
2. Station 3 as originally planned became unavailable for sampling and was removed from the sampling plan.
3. No OVS tube concentrations could be calculated for Events 3 or 4. Pump calibration equipment malfunctioned during Events 3 and 4 such that reliable air volume data could not be recorded for any location. These events were repeated in order to fulfill DuPont's commitment to complete a minimum of seven full events.
4. ND (not detected) means that PFOA was not detected below the analytical Limit of Detection (LOD) for a particular sample batch. LOD values ranged from 0.09 to 0.64 ng/tube fraction for Events 1 – 9. Batch specific LOD values are noted with raw data in Appendices 3.2 through 3.10 of the May 3, 2006 Quarterly MOU Status Report #2, Phase II Monitoring/Sampling Work Plan, Dupont Washington Works (OPPT-2004-0113 PFOA Site-related Environmental Assessment Program).
5. NQ (not quantifiable) means that PFOA was not detected below the analytical Limit of Quantitation (LOQ) for a particular sample batch. LOQ values ranged from 0.43 to 3.2 ng/tube fraction for Events 1 – 9. Batch specific LOQ values are noted with raw data in Appendices 3.2 through 3.10 of the May 3, 2006 Quarterly MOU Status Report #2, Phase II Monitoring/Sampling Work Plan, Dupont Washington Works (OPPT-2004-0113 PFOA Site-related Environmental Assessment Program).
6. OVS tube supplies ran short during Event 2; therefore co-located tubes were installed at only 3 of 9 locations.
7. In two cases, no concentrations could be calculated because pump timer equipment malfunctioned and runtime was not recorded.

ND = Not detected at the limit of detection shown
ng/m^3 = Nanograms per cubic meter
NQ = Not quantified at the limit of quantification shown

Table 6-21
2005 Ambient Air High Volume Samplers PFOA Sampling Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Location[1,2]	Event 1 (ng/m^3)	Event 2 (ng/m^3)	Event 3 (ng/m^3)	Event 4 (ng/m^3)	Event 5 (ng/m^3)	Event 6 (ng/m^3)	Event 7 (ng/m^3)	Event 8 (ng/m^3)	Event 9 (ng/m^3)
Station 1	0.09	0.03	0.66	0.72	0.22	0.13	0.23	0.02	0.23
Station 2	0.09	0.06	1.51	2.4	0.34	0.25	0.46	0.04	0.49
Station 4	0.22	2.7	0.11	1	0.2	0.13	0.03	0.03	0.02
Station 5	0.1	0.63	0.13	0.55	0.33	0.14	0.23	0.02	1.05
Station 6	9.58	11.9	1.27	3.12	0.86	0.66	0.13	0.07	1.27
Station 7	0.01	0.01	1.18	0.49	0.04	0.07	0.96	0.02	0.01
Station 8	0.01	0.1	0.63	0.24	0.88	0.07	0.24	0.14	0.06
Station 9	0.02	0.06	0.01	0.03	0.2	0.03	0.01	0.02	0.04
Station 10	11.9	26.3	20	13.4	18.4	13.5	30.1	73.5	24.9
Station 11	11.9	24.7	17.5	10.7	15.9	9.14	24.4	75.9	25.2

1. Station 10 and Station 11 represent co-located samples.
2. Station 3 as originally planned became unavailable for sampling and was removed from the sampling plan.

ng/m^3 = Nanograms per cubic meter

Table 6-22
2005 Average Particle Size Distributions
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Station 1	
Nominal PSD microns	Average PFOA Cumulative % less Dp
6.20	86%
2.51	74%
1.21	63%
0.76	51%
0.37	37%

Station 2	
Nominal PSD microns	Average PFOA Cumulative % less Dp
6.23	87%
2.52	71%
1.21	60%
0.76	48%
0.37	37%

Station 4	
Nominal PSD microns	Average PFOA Cumulative % less Dp
5.89	87%
2.38	76%
1.15	67%
0.72	57%
0.37	43%

Station 5	
Nominal PSD microns	Average PFOA Cumulative % less Dp
6.31	91%
2.55	80%
1.23	69%
0.78	58%
0.38	48%

Station 6	
Nominal PSD microns	Average PFOA Cumulative % less Dp
6.10	95%
2.47	84%
1.19	73%
0.75	60%
0.37	49%

Station 7	
Nominal PSD microns	Average PFOA Cumulative % less Dp
5.92	90%
2.39	76%
1.15	64%
0.72	52%
0.36	38%

Station 8	
Nominal PSD microns	Average PFOA Cumulative % less Dp
6.49	92%
2.61	80%
1.25	69%
0.79	59%
0.39	48%

Station 9	
Nominal PSD microns	Average PFOA Cumulative % less Dp
6.83	85%
2.76	70%
1.33	58%
0.84	46%
0.41	34%

Station 10	
Nominal PSD microns	Average PFOA Cumulative % less Dp
6.67	86%
2.70	66%
1.30	55%
0.81	44%
0.40	35%

Station 11	
Nominal PSD microns	Average PFOA Cumulative % less Dp
6.07	86%
2.45	69%
1.18	56%
0.74	44%
0.36	35%

PSD = Prevention of significant deterioration
Dp = Particle diameter

Table 6-23
2005 Rain PFOA Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample Location[2]	PFOA (ng/L)
Station 1	11.3
Station 2	10.2
Station 4	NQ(<8.8)
Station 5	52.9
Station 6	NQ(<8.8)
Station 7	NQ(<8.8)
Station 8	NQ(<8.8)
Station 9	NQ(<8.8)
Station 10	1,660
Guage 1[3]	NQ(<11)
Guage 2[3]	NQ(<11)

1. All samples collected during Event 1, August 25-26, 2005.
2. Station 3 as originally planned became unavailable for sampling and was removed from the sampling plan.
3. Background samples taken in Elkton, Maryland, on September 15, 2005.

ng/L = Nanograms per liter
NQ = Not quantified at the limit of quantification shown

Table 6-24
2005 LHWA Small Mammal Plasma Sample Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Specimen Number	µL of Plasma		PFOA (ng/mL)
Juvenile Males			
WWO-X-SM-LH-36B		400	
WWO-X-SM-LH-10B		250	
WWO-X-SM-LH-26B		200	
WWO-X-SM-LH-23B		200	
	Total	**1050**	ND (<4.36)
Juvenile Females			
WWO-X-SM-LH-39B		400	
WWO-X-SM-LH-18B		300	
WWO-X-SM-LH-32B		150	
WWO-X-SM-LH-4B		200	
	Total	**1050**	ND (<4.36)
WWO-X-SM-LH-19B		250	
WWO-X-SM-LH-22B		200	
WWO-X-SM-LH-31B		200	
WWO-X-SM-LH-28B		200	
WWO-X-SM-LH-37B		150	
	Total	**1000**	ND (<4.36)
Adult Males			
WWO-X-SM-LH-30B		750	
WWO-X-SM-LH-15B		350	
	Total	**1100**	ND (<4.36)
WWO-X-SM-LH-24B		600	
WWO-X-SM-LH-3B		400	
	Total	**1000**	ND (<4.36)
Adult Female			
WWO-X-SM-LH-25B		500	
WWO-X-SM-LH-27B		500	
	Total	**1000**	ND (<4.36)
WWO-X-SM-LH-29B		750	
WWO-X-SM-LH-6B		250	
	Total	**1000**	ND (<4.36)
WWO-X-SM-LH-35B		1000	
	Total	**1000**	ND (<4.36)
WWO-X-SM-LH-16B	Total	**1600**	ND (<4.36)
WWO-X-SM-LH-34B	Total	**1250**	ND (<4.36)

LHWA = Little Hocking Water Association
ND = Not detected at the limit of detection shown
ng/mL = Nanograms per mililiter
µL = Microliters

Table 6-25
2005 LHWA Small Mammal Liver Sample Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Specimen Number	Liver Weight (grams)	PFOA (ng/g)
Juvenile Male		
WWO-X-SM-LH-26A	0.986	ND (<2.70)
WWO-X-SM-LH-36A	1.173	ND (<2.70)
Juvenile Female		
WWO-X-SM-LH-18A	1.113	ND (<2.70)
WWO-X-SM-LH-28A	1.227	ND (<2.70)
WWO-X-SM-LH-39A	1.186	ND (<2.70)
Adult Male		
WWO-X-SM-LH-24A	2.294	ND (<2.70)
WWO-X-SM-LH-30A	1.812	ND (<2.70)
Adult Female		
WWO-X-SM-LH-25A	1.833	ND (<2.70)
WWO-X-SM-LH-27A	1.493	ND (<2.70)
WWO-X-SM-LH-35A	2.867	ND (<2.70)

LHWA = Little Hocking Water Association
ND = Not detected at the limit of detection shown
ng/g = Nanograms per gram

Table 6-26
2005 Potomac River Works Background Site Small Mammal Plasma Sample Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Specimen Number	µL of Plasma		PFOA (ng/mL)
Adult Males			
WWK-X-SM-B-6B		300	
WWK-X-SM-B-19B		700	
	Total	**1000**	ND (<3.66)
WWK-X-SM-B-12B		700	
WWK-X-SM-B-40B		300	
	Total	**1000**	ND (<3.94)
WWK-X-SM-B-7B		500	
WWK-X-SM-B-16B		500	
	Total	**1000**	ND (<3.94)
WWK-X-SM-B-8B		650	
WWK-X-SM-B-34B		600	
	Total	**1250**	ND (<3.94)
WWK-X-SM-B-10B		550	
WWK-X-SM-B-22B		450	
	Total	**1000**	ND (<3.66)
WWK-X-SM-B-9B		1250	
	Total	**1250**	ND (<3.66)
WWK-X-SM-B-30B		500	
WWK-X-SM-B-32B		500	
	Total	**1000**	ND (<3.94)
Adult Females			
WWK-X-SM-B-14B		750	
WWK-X-SM-B-17B		650	
	Total	**1400**	ND (<3.66)
WWK-X-SM-B-31B		500	
WWK-X-SM-B-41B		700	
	Total	**1200**	ND (<3.66)
WWK-X-SM-B-21B		1500	
	Total	**1500**	ND (<3.94)

LHWA = Little Hocking Water Association
ND = Not detected at the limit of detection shown
ng/mL = Nanograms per mililiter
µL = Microliters

Table 6-27
2005 Potomac River Works Background Site Small Mammal Liver Sample Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Specimen Number	Liver Weight (grams)	PFOA (ng/g)
Juvenile Males		
WWK-X-SM-B-16A	0.867	ND (<1.18)
Juvenile Females		
WWK-X-SM-B-29A*	1.001	
WWK-X-SM-B-42A	1.233	ND (<1.79)
Adult Males		
WWK-X-SM-B-9A	2.302	ND (<1.18)
WWK-X-SM-B-12A	1.752	ND (<1.18)
WWK-X-SM-B-32A	1.686	ND (<1.18)
WWK-X-SM-B-40A	1.591	ND (<1.18)
Adult Females		
WWK-X-SM-B-14A	1.668	ND (<1.79)
WWK-X-SM-B-21A	2.702	ND (<1.79)
WWK-X-SM-B-41A	1.887	ND (<1.79)
WWK-X-SM-B-26A*	1.285	ND (<1.79)

* WWK-X-SM-B-29A was proposed for analysis, but WWK-X-SM-26A was analyzed inadvertently.

LHWA = Little Hocking Water Association
ND = Not detected at the limit of detection shown
ng/g = Nanograms per gram

Table 6-28
2005 Catfish Downstream of Site Outfall 005 Sampling Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample/Media	NumSamps	Avg PFOA (ng/g, wet weight basis)	Min PFOA (ng/g, wet weight basis)	Max PFOA (ng/g, wet weight basis)
Catfish-Site - filet	10	1.67	0.237	9.19
Catfish-Site - viscera	10	159	5.88	1440
Catfish-Site - carcass	10	2.79	NQ (<0.412)	10.8

Sample ID#		Media	PFOA (ng/g)
WWK-X-CAT-S-1	A	filet	9.19
	B	viscera	30.4
	C	carcass	10.8
WWK-X-CAT-S-2	A	filet	0.308
	B	viscera	9.11
	C	carcass	0.549
WWK-X-CAT-S-3	A	filet	0.332
	B	viscera	21.1
	C	carcass	2
WWK-X-CAT-S-4	A	filet	1.54
	B	viscera	29.1
	C	carcass	2.66
WWK-X-CAT-S-5	A	filet	2.19
	B	viscera	23.8
	C	carcass	3.84
WWK-X-CAT-S-6	A	filet	0.239
	B	viscera	7.37
	C	carcass	4.52
WWK-X-CAT-S-7	A	filet	0.871
	B	viscera	15.8
	C	carcass	0.415
WWK-X-CAT-S-8	A	filet	0.237
	B	viscera	5.88
	C	carcass	NQ(<0.412)
WWK-X-CAT-S-9	A	filet	0.795
	B	viscera	6.8
	C	carcass	1.56
WWK-X-CAT-S-10	A	filet	0.983
	B	viscera	1440
	C	carcass	1.15

Notes for summary data at the top of the table:

Field duplicate results were not averaged with parent sample results. Field duplicates were treated as separate samples.

Half of the limit of detection (LOD) was used to calculate the average PFOA result if result was a not detect (ND

The limit of quantitation (LOQ) was used to calculate the average PFOA result if result was not quantifiable (NQ

If the minimum result was ND or NQ, ND or NQ was listed, not half the LOD or the LOQ.

ng/g = Nanograms per gram

NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable

Table 6-29
2005 Background Catfish Sampling Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample/Media	NumSamps	Avg PFOA (ng/g, wet weight basis)	Min PFOA (ng/g, wet weight basis)	Max PFOA (ng/g, wet weight basis)
Catfish-Background - filet	10	0.834	NQ (<0.146)	1.59
Catfish-Background - viscera	10	8.15	0.85	23.1
Catfish-Background - carcass	10	1.23	0.273	1.59

Sample ID#		Media	PFOA (ng/g)
WWK-X-CAT-B-1	A	filet	1.59
	B	viscera	8.61
	C	carcass	1.59
WWK-X-CAT-B-2	A	filet	1.13
	B	viscera	23.1
	C	carcass	1.17
WWK-X-CAT-B-3	A	filet	1.01
	B	viscera	7.71
	C	carcass	1.31
WWK-X-CAT-B-4	A	filet	NQ(<0.146)
	B	viscera	4.38
	C	carcass	0.273
WWK-X-CAT-B-5	A	filet	0.165
	B	viscera	7.73
	C	carcass	1.55
WWK-X-CAT-B-6	A	filet	NQ(<0.146)
	B	viscera	5.56
	C	carcass	1.56
WWK-X-CAT-B-7	A	filet	NQ(<0.158)
	B	viscera	7.44
	C	carcass	1.23
WWK-X-CAT-B-8	A	filet	1.54
	B	viscera	0.85
	C	carcass	1.37
WWK-X-CAT-B-9	A	filet	1.21
	B	viscera	9.08
	C	carcass	0.985
WWK-X-CAT-B-10	A	filet	1.24
	B	viscera	7.05
	C	carcass	1.27

Notes for summary data at the top of the table:

Field duplicate results were not averaged with parent sample results. Field duplicates were treated as separate samples.

Half of the limit of detection (LOD) was used to calculate the average PFOA result if result was a not detect (ND).

The limit of quantitation (LOQ) was used to calculate the average PFOA result if result was not quantifiable (NQ).

If the minimum result was ND or NQ, ND or NQ was listed, not half the LOD or the LOQ.

ng/g = Nanograms per gram

NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable

Table 6-30
2005 Largemouth Bass Downstream of Site Outfall 005 Sampling Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample/Media	NumSamps	Avg PFOA (ng/g, wet weight basis)	Min PFOA (ng/g, wet weight basis)	Max PFOA (ng/g, wet weight basis)
Bass-Site - filet	10	1.10	0.235	1.67
Bass-Site - viscera	10	26.6	1.23	70.7
Bass-Site - carcass	10	1.38	NQ (<0.412)	2.39

Sample ID#		Media	PFOA (ng/g)
WWK-X-BASS-S-1	A	filet	0.364
	B	viscera	16
	C	carcass	0.639
WWK-X-BASS-S-2	A	filet	0.235
	B	viscera	70.7
	C	carcass	NQ(<0.412)
WWK-X-BASS-S-3	A	filet	0.278
	B	viscera	2.59
	C	carcass	NQ(<0.412)
WWK-X-BASS-S-4	A	filet	1.47
	B	viscera	16.7
	C	carcass	1.46
WWK-X-BASS-S-5	A	filet	1.63
	B	viscera	1.23
	C	carcass	1.65
WWK-X-BASS-S-6	A	filet	1.19
	B	viscera	26.2
	C	carcass	2.39
WWK-X-BASS-S-7	A	filet	1.14
	B	viscera	67
	C	carcass	1.53
WWK-X-BASS-S-8	A	filet	1.57
	B	viscera	12.9
	C	carcass	1.65
WWK-X-BASS-S-9	A	filet	1.67
	B	viscera	37.3
	C	carcass	1.84
WWK-X-BASS-S-10	A	filet	1.5
	B	viscera	15.8
	C	carcass	1.83

Notes for summary data at the top of the table:

Field duplicate results were not averaged with parent sample results. Field duplicates were treated as separate samples.

Half of the limit of detection (LOD) was used to calculate the average PFOA result if result was a not detect (ND)

The limit of quantitation (LOQ) was used to calculate the average PFOA result if result was not quantifiable (NQ)

If the minimum result was ND or NQ, ND or NQ was listed, not half the LOD or the LOQ.

ng/g = Nanograms per gram

NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable

Table 6-31
2005 Background Largemouth Bass Sampling Results
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Sample/Media	NumSamps	Avg PFOA (ng/g, wet weight basis)	Min PFOA (ng/g, wet weight basis)	Max PFOA (ng/g, wet weight basis)
Bass-Background - filet	10	0.95	0.158	1.46
Bass-Background - viscera	10	13.9	4.16	42.6
Bass-Background - carcass	10	0.682	NQ (<0.0871)	1.41

Sample ID#		Media	PFOA (ng/g)
WWK-X-BASS-B-1	A	filet	
	B	viscera	
	C	carcass	1.21
WWK-X-BASS-B-2	A	filet	1.16
	B	viscera	10.1
	C	carcass	0.15
WWK-X-BASS-B-3	A	filet	1.1
	B	viscera	6.73
	C	carcass	1.26
WWK-X-BASS-B-4	A	filet	1.43
	B	viscera	5.47
	C	carcass	1.41
WWK-X-BASS-B-5	A	filet	0.158
	B	viscera	8.07
	C	carcass	0.3
WWK-X-BASS-B-6	A	filet	0.167
	B	viscera	36.4
	C	carcass	0.162
WWK-X-BASS-B-7	A	filet	0.966
	B	viscera	42.6
	C	carcass	1.08
WWK-X-BASS-B-8	A	filet	1.46
	B	viscera	9.14
	C	carcass	0.308
WWK-X-BASS-B-9	A	filet	0.189
	B	viscera	4.16
	C	carcass	NQ(<0.0871)
WWK-X-BASS-B-10	A	filet	1.42
	B	viscera	6.46
	C	carcass	0.857

Notes for summary data at the top of the table:

Field duplicate results were not averaged with parent sample results. Field duplicates were treated as separate samples
Half of the limit of detection (LOD) was used to calculate the average PFOA result if result was a not detect (ND).
The limit of quantitation (LOQ) was used to calculate the average PFOA result if result was not quantifiable (NQ).
If the minimum result was ND or NQ, ND or NQ was listed, not half the LOD or the LOQ.

ng/g = Nanograms per gram
NQ = Not quantified at the limit of quantification shown

Table 6-32
2011 Ohio, West Virginia and Background Location Produce Sampling
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

LOCATION		SAMPLE_MATRIX	SAMPLE_NUMBER	DATESMPL	PFOA (µg/kg)	PFOA (mg/kg)
Ohio	OH-1	CUCUMBER	WWO-X-OH-1-CUC	8/2/2011	ND (<0.48)	ND (<0.00048)
	OH-1	GREEN BEAN	WWO-X-OH-1-BEAN	8/2/2011	ND (<0.50)	ND (<0.0005)
	OH-1	PEPPER	WWO-X-OH-1-PEP	8/2/2011	ND (<0.50)	ND (<0.0005)
	OH-1	POTATO	WWO-X-OH-1 (POT)	8/11/2011	ND (<0.50)	ND (<0.0005)
	OH-1	TOMATO	WWO-X-OH-1-TOM	8/2/2011	ND (<0.50)	ND (<0.0005)
	OH-2	CUCUMBER	WWO-X-OH-2-CUC	8/3/2011	ND (<0.47)	ND (<0.00047)
	OH-2	GREEN BEAN	WWO-X-OH-2-BEAN	8/3/2011	ND (<0.51)	ND (<0.00051)
	OH-2	PEPPER	WWO-X-OH-2-PEP	8/3/2011	ND (<0.50)	ND (<0.0005)
	OH-2	TOMATO	WWO-X-OH-2-TOM	8/3/2011	ND (<0.51)	ND (<0.00051)
	OH-3	CUCUMBER	WWO-X-OH-3-CUC	8/3/2011	ND (<0.49)	ND (<0.00049)
	OH-3	PEPPER	WWO-X-OH-3(PEP)	8/23/2011	ND (<0.50)	ND (<0.0005)
	OH-3	TOMATO	WWO-X-OH-3(TOM)	8/23/2011	ND (<0.44)	ND (<0.00044)
	OH-4	GREEN BEAN	WWO-X-OH-4-BEAN	8/2/2011	ND (<0.50)	ND (<0.0005)
	OH-4	PEPPER	WWO-X-OH-4-PEP	8/2/2011	ND (<0.51)	ND (<0.00051)
	OH-4	TOMATO	WWO-X-OH-4-TOM	8/2/2011	ND (<0.50)	ND (<0.0005)
	OH-5	CUCUMBER	WWO-X-OH-5-CUC	8/3/2011	ND (<0.51)	ND (<0.00051)
	OH-5	PEPPER	WWO-X-OH-5(PEP)	8/18/2011	ND (<0.49)	ND (<0.00049)
	OH-5	TOMATO	WWO-X-OH-5-TOM	8/3/2011	ND (<0.48)	ND (<0.00048)
	OH-6	CUCUMBER	WWO-X-OH-6-CUC	8/3/2011	ND (<0.47)	ND (<0.00047)
	OH-6	GREEN BEAN	WWO-X-OH-6-BEAN	8/3/2011	ND (<0.51)	ND (<0.00051)
	OH-6	PEPPER	WWO-X-OH-6-PEP	8/3/2011	ND (<0.50)	ND (<0.0005)
	OH-6	TOMATO	WWO-X-OH-6-TOM	8/3/2011	ND (<0.51)	ND (<0.00051)
	OH-7	PEPPER	WWO-X-OH-7(PEP)	8/10/2011	ND (<0.50)	ND (<0.0005)
	OH-7	TOMATO	WWO-X-OH-7(TOM)	8/10/2011	ND (<0.50)	ND (<0.0005)
	OH-8	GREEN BEAN	WWO-X-OH-8-BEAN	8/3/2011	0.89 J	0.00089 J
	OH-8	POTATO	WWO-X-OH-8-POT	8/3/2011	ND (<0.50)	ND (<0.0005)
	OH-8	TOMATO	WWO-X-OH-8-TOM	8/3/2011	ND (<0.47)	ND (<0.00047)
	OH-9	PEPPER	WWO-X-OH-9(PEP)	9/12/2011	ND (<0.50)	ND (<0.0005)
	OH-9	TOMATO	WWO-X-OH-9(TOM)	8/31/2011	ND (<0.49)	ND (<0.00049)
	OH-10	CUCUMBER	WWO-X-OH-10-CUC	8/4/2011	ND (<0.44)	ND (<0.00044)
	OH-10	PEPPER	WWO-X-OH-10-PEP	8/4/2011	ND (<0.50)	ND (<0.0005)
	OH-10	POTATO	WWO-X-OH-10-POT	8/4/2011	ND (<0.47)	ND (<0.00047)
	OH-10	TOMATO	WWO-X-OH-10-TOM	8/4/2011	ND (<0.52)	ND (<0.00052)
	OH-11	CUCUMBER	WWO-X-OH-11(CUC)	8/11/2011	ND (<0.46)	ND (<0.00046)
	OH-11	GREEN BEAN	WWO-X-OH-11(BEAN)	8/11/2011	0.98	0.00098
	OH-11	PEPPER	WWO-X-OH-11(PEP)	8/18/2011	ND (<0.50)	ND (<0.0005)
	OH-11	TOMATO	WWO-X-OH-11(TOM)	8/11/2011	ND (<0.51)	ND (<0.00051)
	OH-12	CUCUMBER	WWO-X-OH-12-CUC	8/3/2011	ND (<0.50)	ND (<0.0005)
	OH-12	GREEN BEAN	WWO-X-OH-12-BEAN	8/3/2011	ND (<0.49)	ND (<0.00049)
	OH-12	PEPPER	WWO-X-OH-12-PEP	8/3/2011	ND (<0.50)	ND (<0.0005)
	OH-12	TOMATO	WWO-X-OH-12-TOM	8/3/2011	ND (<0.51)	ND (<0.00051)
	OH-13	CUCUMBER	WWO-X-OH-13(CUC)	8/10/2011	ND (<0.50)	ND (<0.0005)
	OH-13	GREEN BEAN	WWO-X-OH-13(BEAN)	8/10/2011	ND (<0.51)	ND (<0.00051)
	OH-13	PEPPER	WWO-X-OH-13(PEP)	8/10/2011	ND (<0.50)	ND (<0.0005)
	OH-13	POTATO	WWO-X-OH-13 (POT)	8/12/2011	ND (<0.50)	ND (<0.0005)
	OH-13	TOMATO	WWO-X-OH-13(TOM)	8/10/2011	ND (<0.51)	ND (<0.00051)
	OH-14	CUCUMBER	WWO-X-OH-14-CUC	8/4/2011	ND (<0.47)	ND (<0.00047)
	OH-14	GREEN BEAN	WWO-X-OH-14-BEAN	8/4/2011	ND (<0.50)	ND (<0.0005)
	OH-14	POTATO	WWO-X-OH-14 (POT)	8/12/2011	ND (<0.46)	ND (<0.00046)

Table 6-32
2011 Ohio, West Virginia and Background Location Produce Sampling
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

LOCATION		SAMPLE_MATRIX	SAMPLE_NUMBER	DATESMPL	PFOA (µg/kg)	PFOA (mg/kg)
Ohio cont.	OH-14	TOMATO	WWO-X-OH-14(TOM)	8/12/2011	ND (<0.49)	ND (<0.00049)
	OH-15	PEPPER	WWO-X-OH-15(PEP)	8/12/2011	ND (<0.50)	ND (<0.0005)
	OH-15	TOMATO	WWO-X-OH-15(TOM)	8/12/2011	ND (<0.48)	ND (<0.00048)
	OH-16	GREEN BEAN	WWO-X-OH-16(BEAN)	8/9/2011	ND (<0.49)	ND (<0.00049)
	OH-16	PEPPER	WWO-X-OH-16(PEP)	8/9/2011	ND (<0.49)	ND (<0.00049)
	OH-16	POTATO	WWO-X-OH-16 (POT)	8/9/2011	ND (<0.47)	ND (<0.00047)
	OH-16	TOMATO	WWO-X-OH-16(TOM)	8/9/2011	ND (<0.49)	ND (<0.00049)
	OH-17	CUCUMBER	WWO-X-OH-17-CUC	8/4/2011	ND (<0.50)	ND (<0.0005)
	OH-17	GREEN BEAN	WWO-X-OH-17-BEAN	8/4/2011	ND (<0.50)	ND (<0.0005)
	OH-17	PEPPER	WWO-X-OH-17-PEP	8/4/2011	ND (<0.49)	ND (<0.00049)
	OH-17	TOMATO	WWO-X-OH-17-TOM	8/4/2011	ND (<0.50)	ND (<0.0005)
	OH-18	TOMATO	WWO-X-OH-18(TOM)	8/10/2011	ND (<0.48)	ND (<0.00048)
	OH-19	CUCUMBER	WWO-X-OH-19-CUC	8/4/2011	ND (<0.49)	ND (<0.00049)
	OH-19	GREEN BEAN	WWO-X-OH-19-BEAN	8/4/2011	ND (<0.48)	ND (<0.00048)
	OH-19	PEPPER	WWO-X-OH-19(PEP)	8/11/2011	ND (<0.50)	ND (<0.0005)
	OH-19	TOMATO	WWO-X-OH-19-TOM	8/4/2011	ND (<0.51)	ND (<0.00051)
West Virginia	WV-1	CUCUMBER	WWK-X-WV-1-CUC	8/4/2011	ND (<0.50)	ND (<0.0005)
	WV-1	GREEN BEAN	WWK-X-WV-1-BEAN	8/4/2011	ND (<0.49)	ND (<0.00049)
	WV-1	PEPPER	WWK-X-WV-1-PEP	8/4/2011	ND (<0.50)	ND (<0.0005)
	WV-1	POTATO	WWK-X-WV-1-POT	8/4/2011	ND (<0.50)	ND (<0.0005)
	WV-1	TOMATO	WWK-X-WV-1-TOM	8/4/2011	ND (<0.47)	ND (<0.00047)
	WV-2	CUCUMBER	WWK-X-WV-2-CUC	8/4/2011	ND (<0.50)	ND (<0.0005)
	WV-2	GREEN BEAN	WWK-X-WV-2-BEAN	8/4/2011	ND (<0.48)	ND (<0.00048)
	WV-2	PEPPER	WWK-X-WV-2-PEP	8/4/2011	ND (<0.49)	ND (<0.00049)
	WV-2	POTATO	WWK-X-WV-2-POT	8/4/2011	ND (<0.50)	ND (<0.0005)
	WV-2	TOMATO	WWK-X-WV-2-TOM	8/4/2011	ND (<0.50)	ND (<0.0005)
	WV-3	CUCUMBER	WWK-X-WV-3 (CUC)	8/9/2011	ND (<0.50)	ND (<0.0005)
	WV-3	GREEN BEAN	WWK-X-WV-3 (BEAN)	8/9/2011	ND (<0.49)	ND (<0.00049)
	WV-3	PEPPER	WWK-X-WV-3(PEP)	8/9/2011	ND (<0.48)	ND (<0.00048)
	WV-3	TOMATO	WWK-X-WV-3(TOM)	8/9/2011	ND (<0.47)	ND (<0.00047)
	WV-4	GREEN BEAN	WWK-X-WV-4 (BEAN)	8/9/2011	ND (<0.49)	ND (<0.00049)
	WV-4	PEPPER	WWK-X-WV-4(PEP)	8/9/2011	ND (<0.47)	ND (<0.00047)
	WV-4	TOMATO	WWK-X-WV-4(TOM)	8/9/2011	ND (<0.45)	ND (<0.00045)
	WV-5	CUCUMBER	WWK-X-WV-5 (CUC)	8/8/2011	ND (<0.50)	ND (<0.0005)
	WV-5	GREEN BEAN	WWK-X-WV-5 (BEAN)	8/9/2011	ND (<0.49)	ND (<0.00049)
	WV-5	PEPPER	WWK-X-WV-5(PEP)	8/8/2011	ND (<0.48)	ND (<0.00048)
	WV-5	POTATO	WWK-X-WV-5 (POT)	8/8/2011	ND (<0.49)	ND (<0.00049)
	WV-5	TOMATO	WWK-X-WV-5(TOM)	8/8/2011	ND (<0.46)	ND (<0.00046)
	WV-6	POTATO	WWK-X-WV-6 (POT)	8/9/2011	ND (<0.49)	ND (<0.00049)
	WV-6	TOMATO	WWK-X-WV-6(TOM)	8/9/2011	ND (<0.50)	ND (<0.0005)
	WV-7	PEPPER	WWK-X-WV-7(PEP)	9/12/2011	ND (<0.46)	ND (<0.00046)
	WV-7	TOMATO	WWK-X-WV-7(TOM)	8/9/2011	ND (<0.46)	ND (<0.00046)
	WV-8	CUCUMBER	WWK-X-WV-8 (CUC)	8/10/2011	ND (<0.50)	ND (<0.0005)
	WV-8	GREEN BEAN	WWK-X-WV-8 (BEAN)	8/10/2011	ND (<0.50)	ND (<0.0005)
	WV-8	PEPPER	WWK-X-WV-8(PEP)	8/10/2011	ND (<0.49)	ND (<0.00049)
	WV-8	POTATO	WWK-X-WV-8 (POT)	8/10/2011	ND (<0.48)	ND (<0.00048)
	WV-8	TOMATO	WWK-X-WV-8(TOM)	8/10/2011	ND (<0.50)	ND (<0.0005)
	WV-9	PEPPER	WWK-X-WV-9(PEP)	8/9/2011	ND (<0.50)	ND (<0.0005)
	WV-9	TOMATO	WWK-X-WV-9(TOM)	8/9/2011	ND (<0.47)	ND (<0.00047)

Table 6-32
2011 Ohio, West Virginia and Background Location Produce Sampling
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

LOCATION		SAMPLE_MATRIX	SAMPLE_NUMBER	DATESMPL	PFOA (µg/kg)	PFOA (mg/kg)
West Virginia cont.	WV-10	CUCUMBER	WWK-X-WV-10 (CUC)	8/8/2011	ND (<0.50)	ND (<0.0005)
	WV-10	GREEN BEAN	WWK-X-WV-10 (BEAN)	8/8/2011	ND (<0.50)	ND (<0.0005)
	WV-10	POTATO	WWK-X-WV-10(POT)	8/18/2011	ND (<0.48)	ND (<0.00048)
	WV-10	PEPPER	WWK-X-WV-10(PEP)	8/8/2011	ND (<0.46)	ND (<0.00046)
	WV-10	TOMATO	WWK-X-WV-10(TOM)	8/8/2011	ND (<0.45)	ND (<0.00045)
Maryland	Background	CUCUMBER	WWK-X-WWM-1-CUC	8/15/2011	ND (<0.49)	ND (<0.00049)
	Background	TOMATO	WWK-X-WWM-1-TOM	8/18/2011	ND (<0.49)	ND (<0.00049)
	Background	PEPPER	WWK-X-WWM-1-PEP	8/18/2011	ND (<0.50)	ND (<0.0005)
	Background	GREEN BEAN	WWK-X-WWM-1-BEAN	8/18/2011	ND (<0.50)	ND (<0.0005)
	Background	POTATO	WWK-X-WWM-1-POT	9/9/2011	ND (<0.49)	ND (<0.00049)

J = Compound present. Reported value may not be accurate or precise
mg/kg = Milligrams per kilogram
ND = Not detected at the limit of detection shown
µg/kg = Micrograms per kilogram
Yellow highlight = PFOA detected above the limit of detection

Table 6-33
2011 Ohio, West Virginia and Background Location Untreated Irrigation Water Sampling
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

LOCATION		SAMPLE_MATRIX	Water Source	SAMPLE_NUMBER	DATESMPL	PFOA (ug/L)	PFOA (ng/L)
Ohio	OH-1	UNTREATED IRRIGATION WATER	WELL	WWO-G-OH-1	8/2/2011	ND (<0.0034)	ND (<3.4)
	OH-3	UNTREATED IRRIGATION WATER	POND	WWO-W-OH-3	8/3/2011	2.1 L	2100 L
	OH-12	UNTREATED IRRIGATION WATER	WELL	WWO-G-OH-12	8/3/2011	10	10000
	OH-13	UNTREATED IRRIGATION WATER	RAIN BARREL	WWO-Z-OH-13	8/10/2011	ND (<0.0034)	ND (<3.4)
	OH-16	UNTREATED IRRIGATION WATER	WELL	WWO-G-OH-16	8/9/2011	NQ (<0.017)	NQ (<17)
West Virginia	WV-6	UNTREATED IRRIGATION WATER	DRINKING WATER WELL	WWK-D-WV-6	8/9/2011	0.25 J	250 J
	WV-9	UNTREATED IRRIGATION WATER	WELL	WWK-D-WV-9	8/9/2011	0.34	340
Maryland	Background	WATER	DRINKING WATER WELL	WWK-D-WWM-1	10/23/2011	ND (<0.0030)	ND (<3.0)

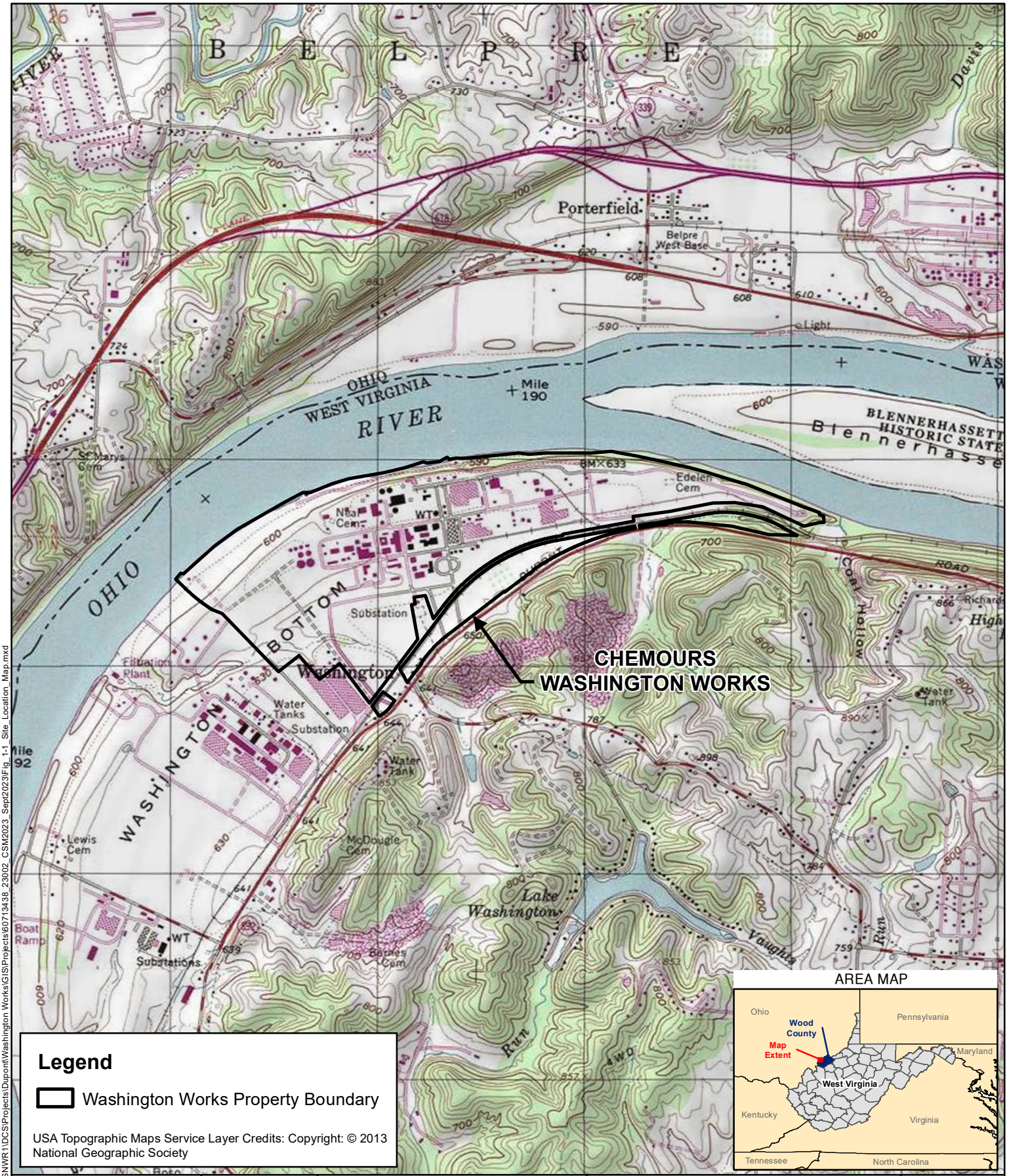
L = Compound present. Reported value may be biased low; actual value is expected to be higher
J = Reported value may not be accurate or precise
ND = Not detected at the limit of detection shown
NQ = Detected at a level between the MDL and the reporting limit (RL); result is not quantifiable
ng/L = Nanograms per liter
µg/L = Micrograms per liter

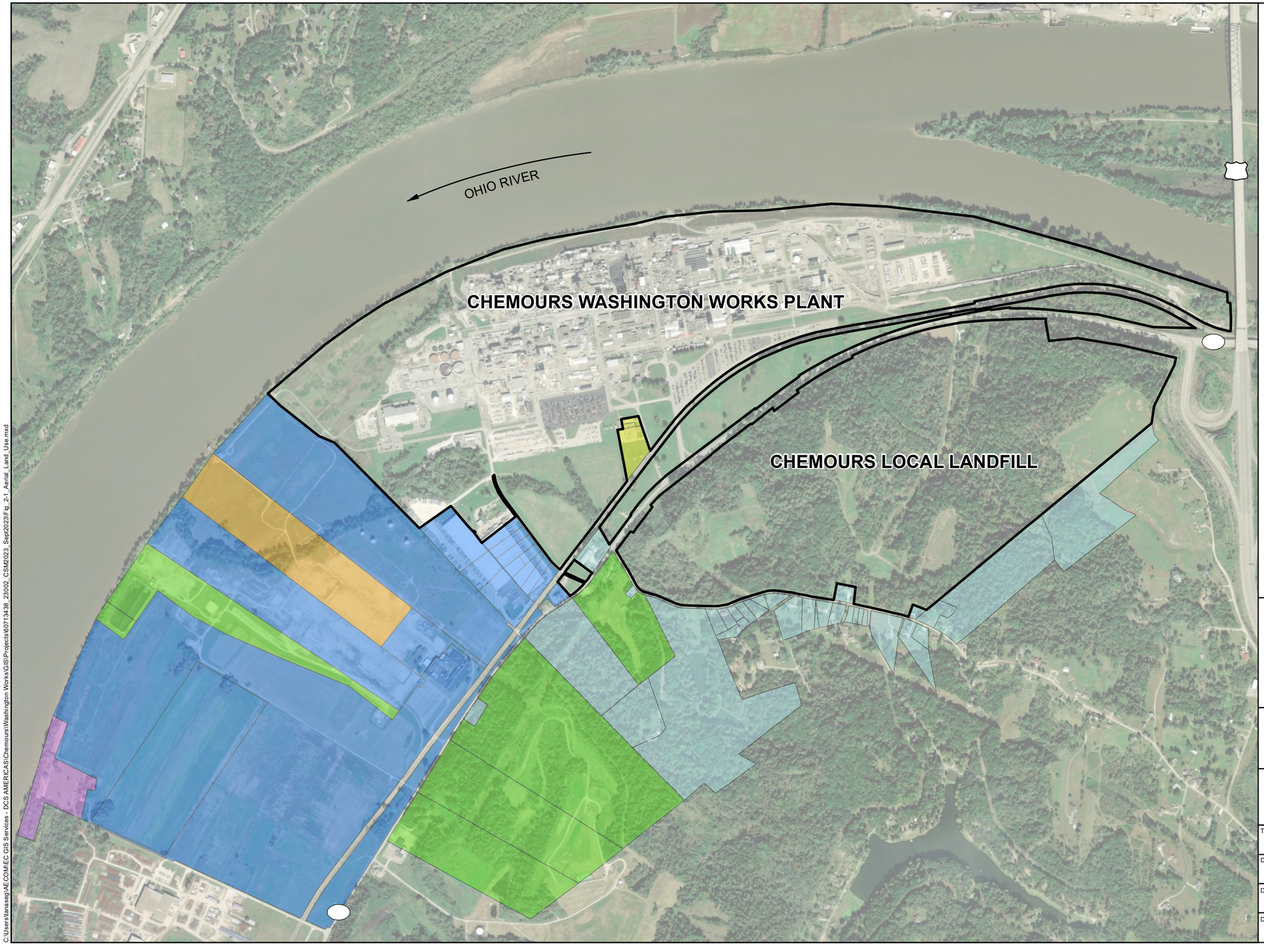
Table 6-34
2012 Ohio Beef and Beef Fodder Sampling
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

LOCATION		SAMPLE_MATRIX	SAMPLE_NUMBER	DATESMPL	PFOA (µg/kg, µg/L)	PFOA (mg/kg, ng/L)
Ohio	OH-11	BEEF	WWO-X-OH-11 (BEEF)	2/17/2012	ND (<0.43) µg/kg	ND (<0.00043) mg/kg
	OH-11	HAY	WWO-X-OH-11 (HAY)	2/17/2012	66 µg/kg	0.066 mg/kg
	OH-11	UNTREATED CATTLE WATER	WWO-W-PASTUREPOND1	2/17/2012	9.2 µg/L	9200 ng/L
	OH-11	UNTREATED CATTLE WATER	WWO-W-PASTUREPOND2	2/17/2012	19 µg/L	19000 ng/L
	OH-11	UNTREATED CATTLE WATER	WWO-W-PASTUREPOND3	2/17/2012	17 µg/L	17000 ng/L
	OH-11	UNTREATED CATTLE WATER	WWO-W-PASTURESPRING	2/17/2012	15 µg/L	15000 ng/L

mg/kg = Milligrams per kilogram
ND = Not detected at the limit of detection shown
ng/L = Nanograms per liter
µg/kg = Micrograms per kilogram
µg/L = Micrograms per liter

Figures


CHEMOURS
WASHINGTON WORKS
Legend
Washington Works Property Boundary
USA Topographic Maps Service Layer Credits: Copyright: © 2013 National Geographic Society
AREA MAP
Ohio
Pennsylvania
Wood County
Map Extent
Maryland
West Virginia
Kentucky
Virginia
Tennessee
North Carolina
0 1,000 2,000
Feet
1 inch=2,000 feet
MAP FORMATTED FOR "A" (8.5" X 11") SIZE SHEET. SCALE NOT VALID FOR DIFFERENT PAGE SIZE.
TASK NUMBER: 23002
DESIGNED BY: K. DAVIS
DRAWN BY: G. TANASE
DATA QUALITY CHECK BY: G. GREGORY
AECOM
248 Chapman Road
Suite 101
Newark, DE 19702
Site Location Map
2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia
PROJECT NUMBER: 60713438
DATE: 2/12/2024
FIGURE NUMBER: 1-1
\\na.aecomnet.com\lfs\AMER\Newark-USNWR1\DCS\Projects\Dupont\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_1-1_Site_Location_Map.mxd



Legend

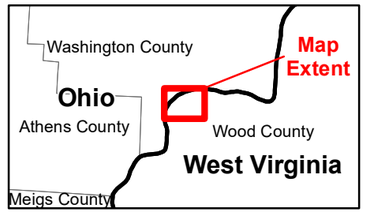
- Site Boundary

Land Use

- Industrial
- Commercial
- Utility
- Farm
- Residential
- Exempt

Note:
Land use classifications from
https://www.mapwv.gov/assessment/

2018 Vivid Imagery Source: Maxar





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Feet

1 inch = 1,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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Newark, DE 19702

Aerial Photograph Showing Adjacent Land Use

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY:	DATE:
K. DAVIS	2/12/2024
DRAWN BY:	FIGURE NUMBER:
G. TANASE	2-1
DATA QUALITY CHECK BY:	
G. GREGORY	

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TASK NUMBER:	23002
DESIGNED BY:	K. DAVIS
DRAWN BY:	G. TANASE
DATA QUALITY CHKD:	G. GREGORY

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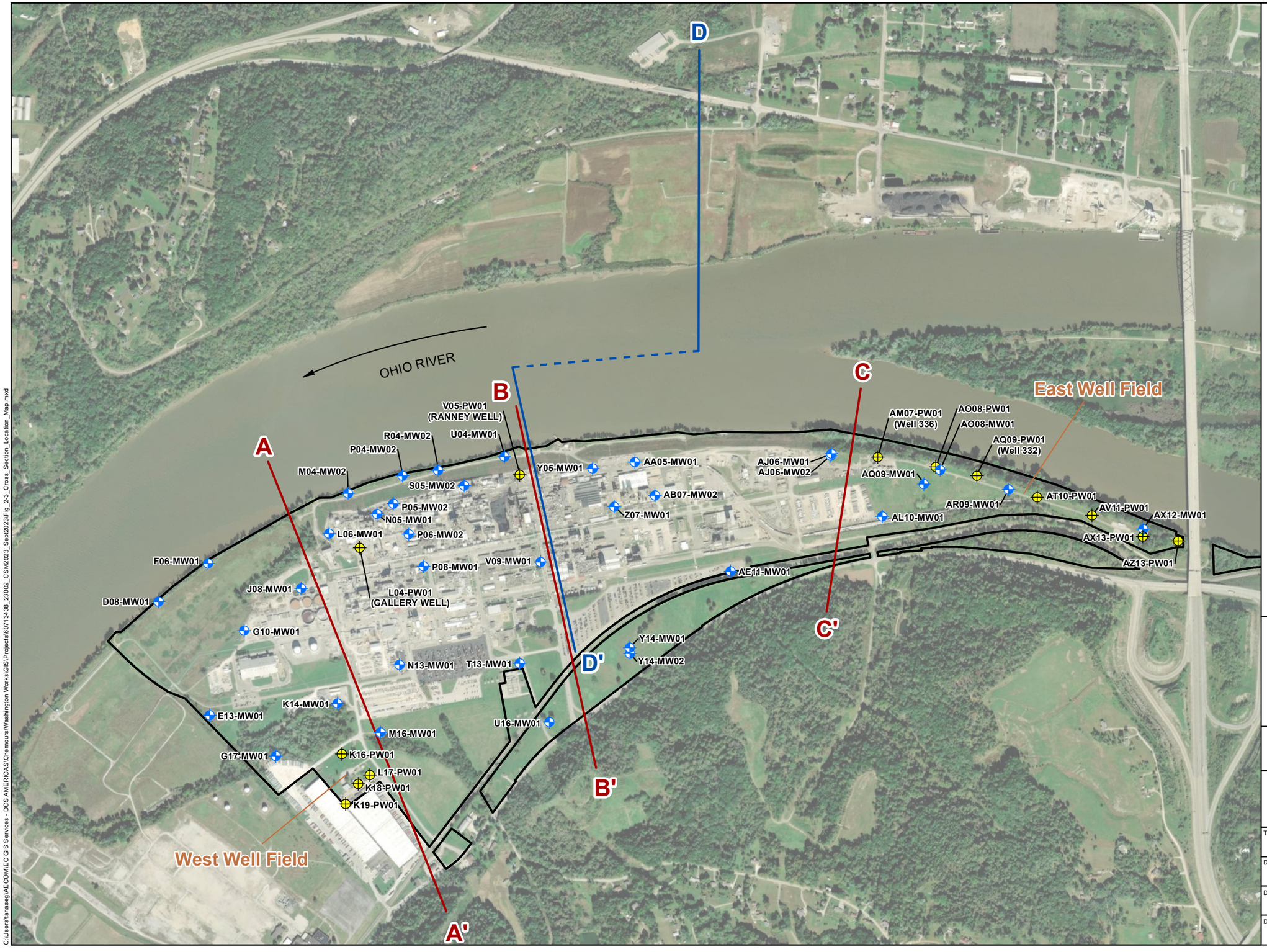
248 Chapman Road
Suite 101
Newark, DE 19702

Idealized Ohio River Valley Cross-Section and Block Diagram (from Simard, 1989)

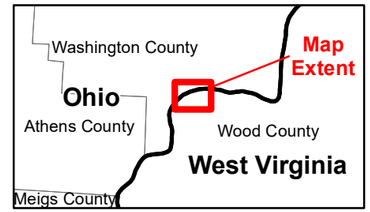
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia



Legend

- On-Site Geological Cross Section
- On- and Off-Site Geological Cross Section
- Monitoring Well
- Production Well
- Site Boundary

2018 Vivid Imagery Source: Maxar





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Feet

1 inch = 900 feet

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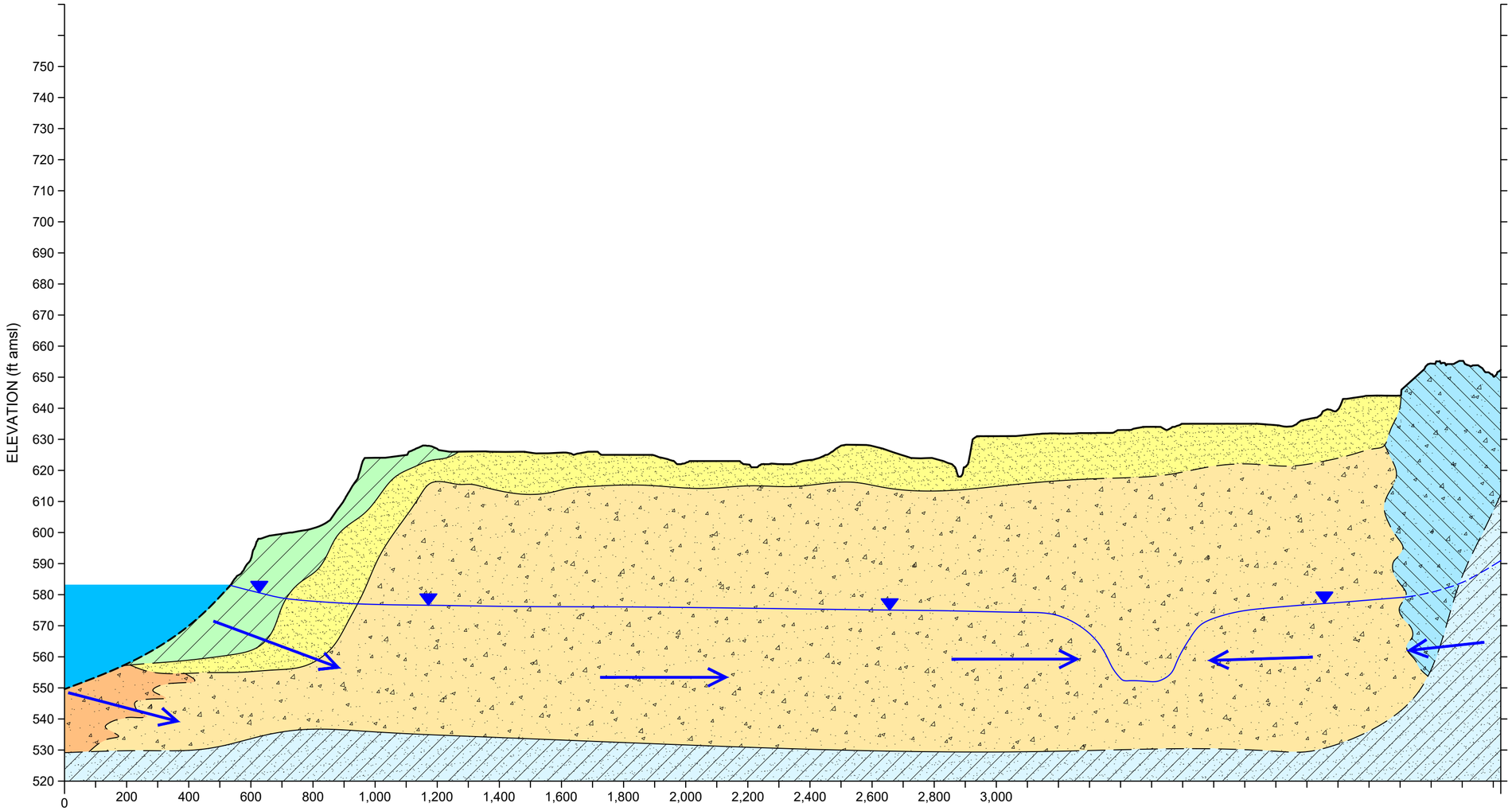
248 Chapman Road
Suite 101
Newark, DE 19702

CROSS SECTION LOCATION MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: K. DAVIS	DATE: 2/12/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 2-3
DATA QUALITY CHECK BY: G. GREGORY	

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_2-3_Cross_Section_Location_Map.mxd



LEGEND

- HOLOCENE SILT AND CLAY
- HOLOCENE SAND
- REWORKED PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- WEATHERED SHALE / SANDSTONE
- PERMIAN BEDROCK (SHALE / SANDSTONE CONSOLIDATED UNIT)
- GROUNDWATER ELEVATION
- GROUNDWATER FLOWPATH

NOTES:
DASHED CONTACTS ARE INTERPRETED.

ABBREVIATIONS:
ft amsl = FEET ABOVE MEAN SEA LEVEL

23002	AECOM		60713438
K. DAVIS			12/06/2024
G. TANASE			
G. GREGORY			

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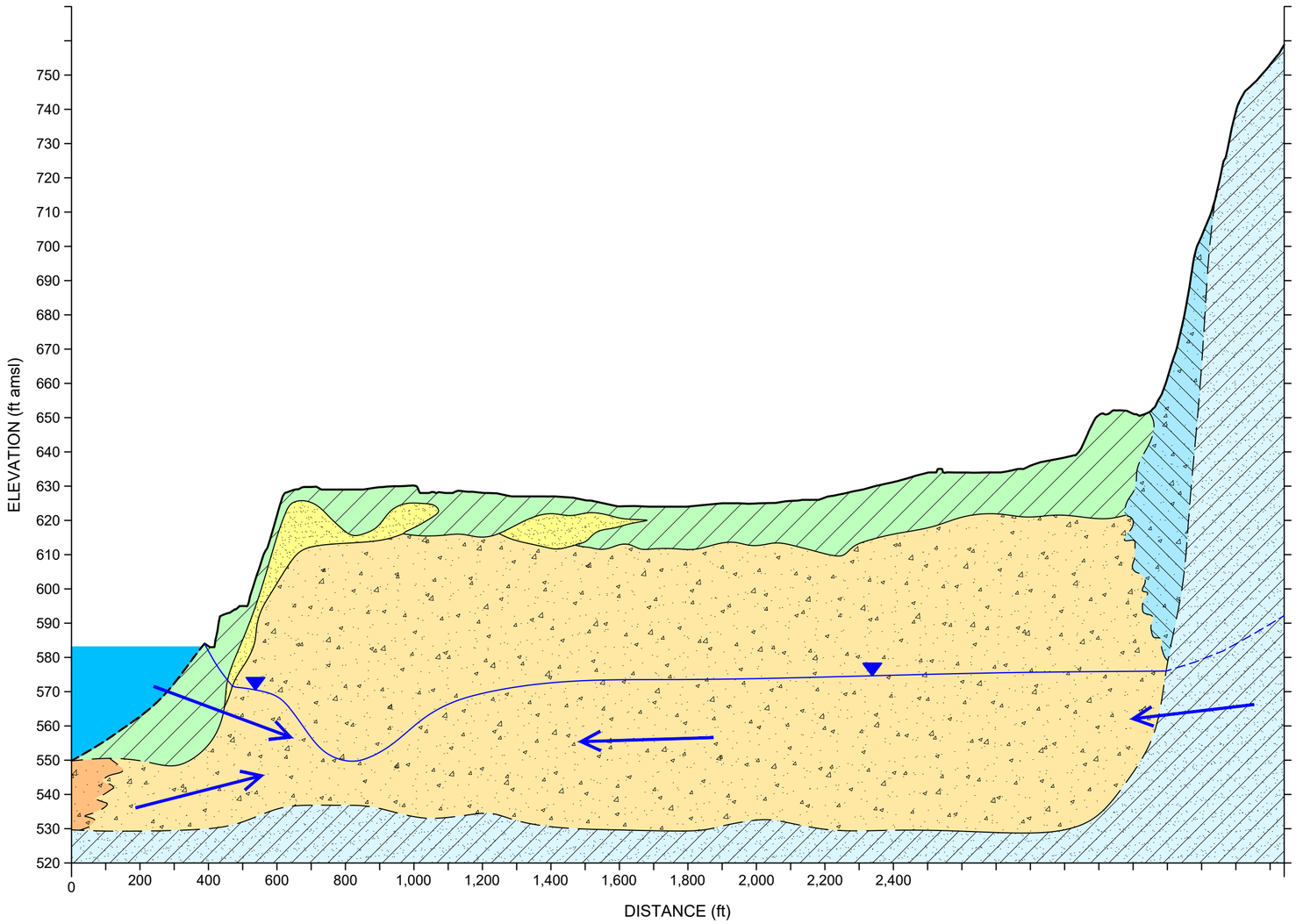

LEGEND

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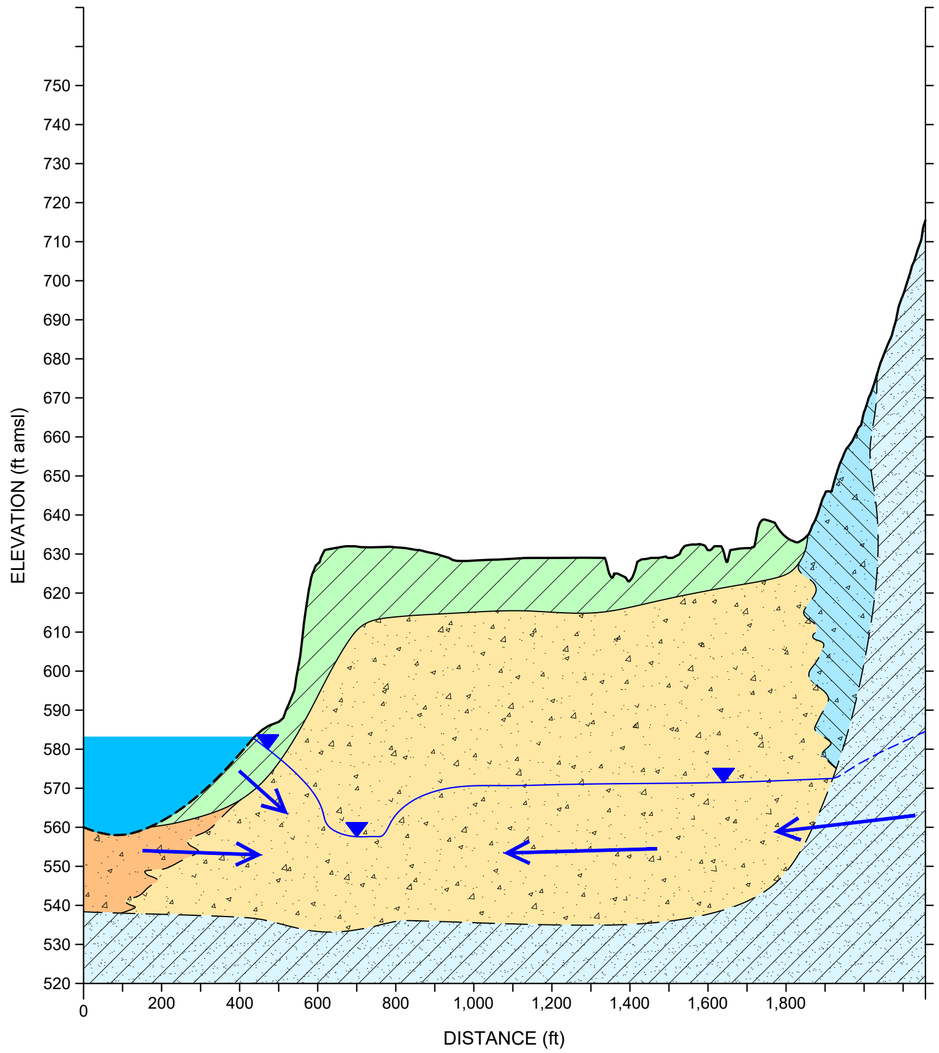

LEGEND

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- REWORKED PLEISTOCENE ALLUVIAL SAND AND GRAVEL
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ft amsl = FEET ABOVE MEAN SEA LEVEL

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G. TANASE			
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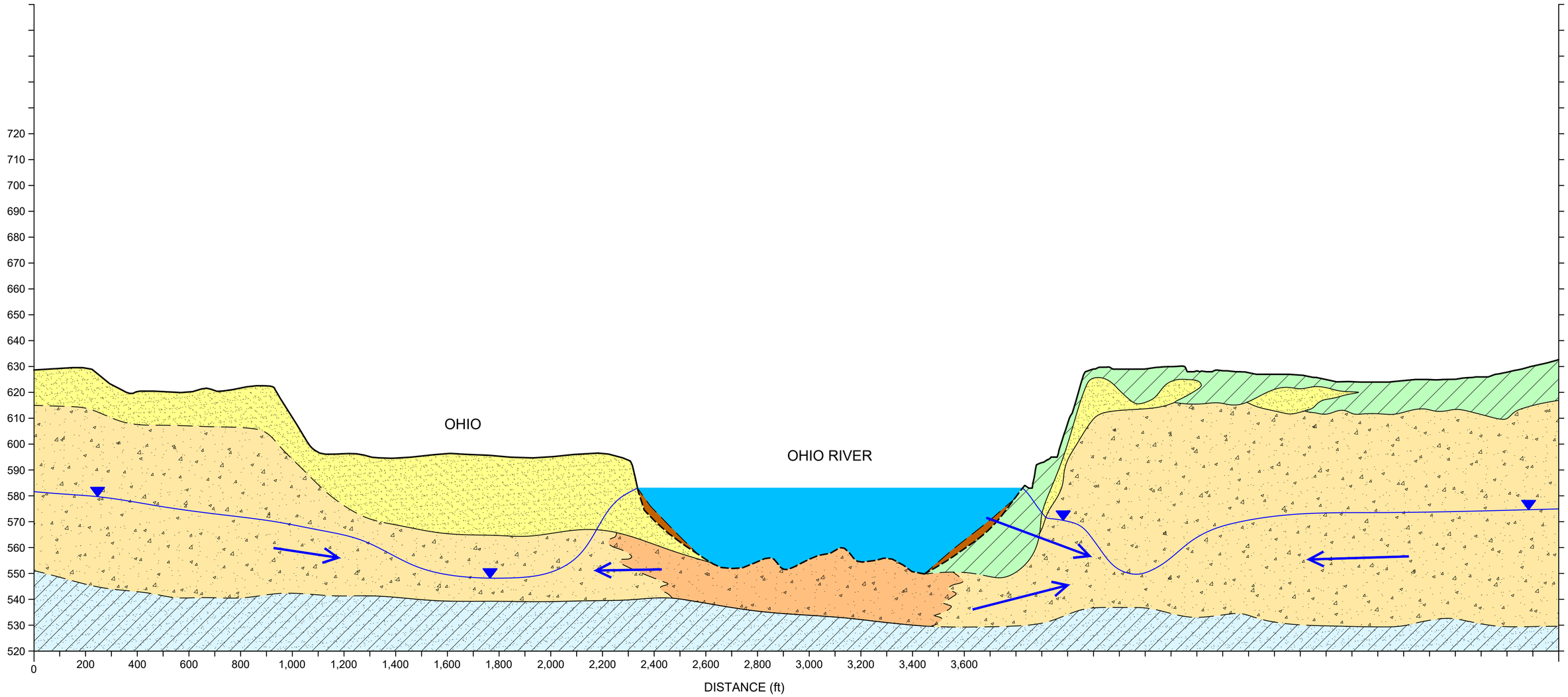

LEGEND

- SURFACE WATER BODY SEDIMENT
- HOLOCENE SILT AND CLAY
- HOLOCENE SAND
- REWORKED PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- PERMIAN BEDROCK (SHALE / SANDSTONE CONSOLIDATED UNIT)
- GROUNDWATER ELEVATION
- GROUNDWATER FLOWPATH

NOTES:
DASHED CONTACTS ARE INTERPRETED.

ABBREVIATIONS:
ft amsl = FEET ABOVE MEAN SEA LEVEL

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K. DAVIS			12/06/2024
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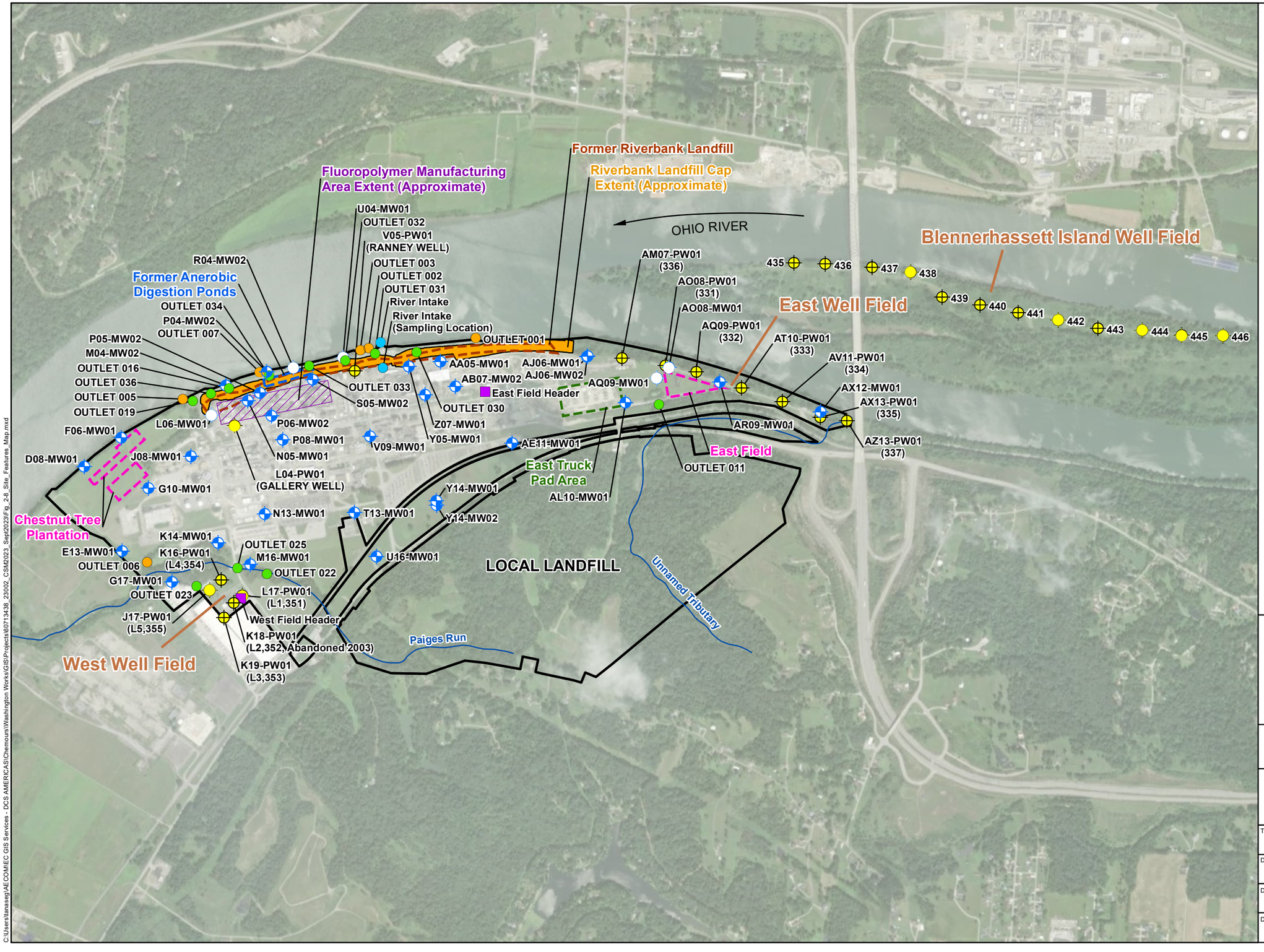
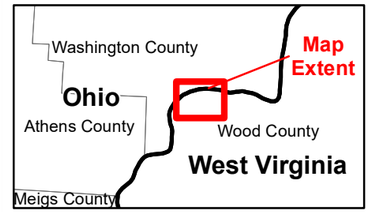


Legend

- Monitoring wells for PFAS Sampling and/or groundwater elevation monitoring
- Production Well
- Process Outfall
- Storm Water Outlet
- River Intake
- Field Header
- Approximate Location of Area of Concern (AOC)
- East Truck Pad
- Former Anerobic Digestion
- Former Riverbank Landfill
- Fluoropolymer Manufacturing Area Extent (Approximate)
- Riverbank Landfill Cap Extent (Approximate)
- Site Boundary
- Hydrology Line

2018 Vivid Imagery Source: Maxar



0 600 1,200 2,400

Feet

1 inch = 1,200 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

AECOM
248 Chapman Road
Suite 101
Newark, DE 19702

SITE FEATURES MAP

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: K. DAVIS	DATE: 12/5/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 2-8
DATA QUALITY CHECK BY: G. GREGORY	

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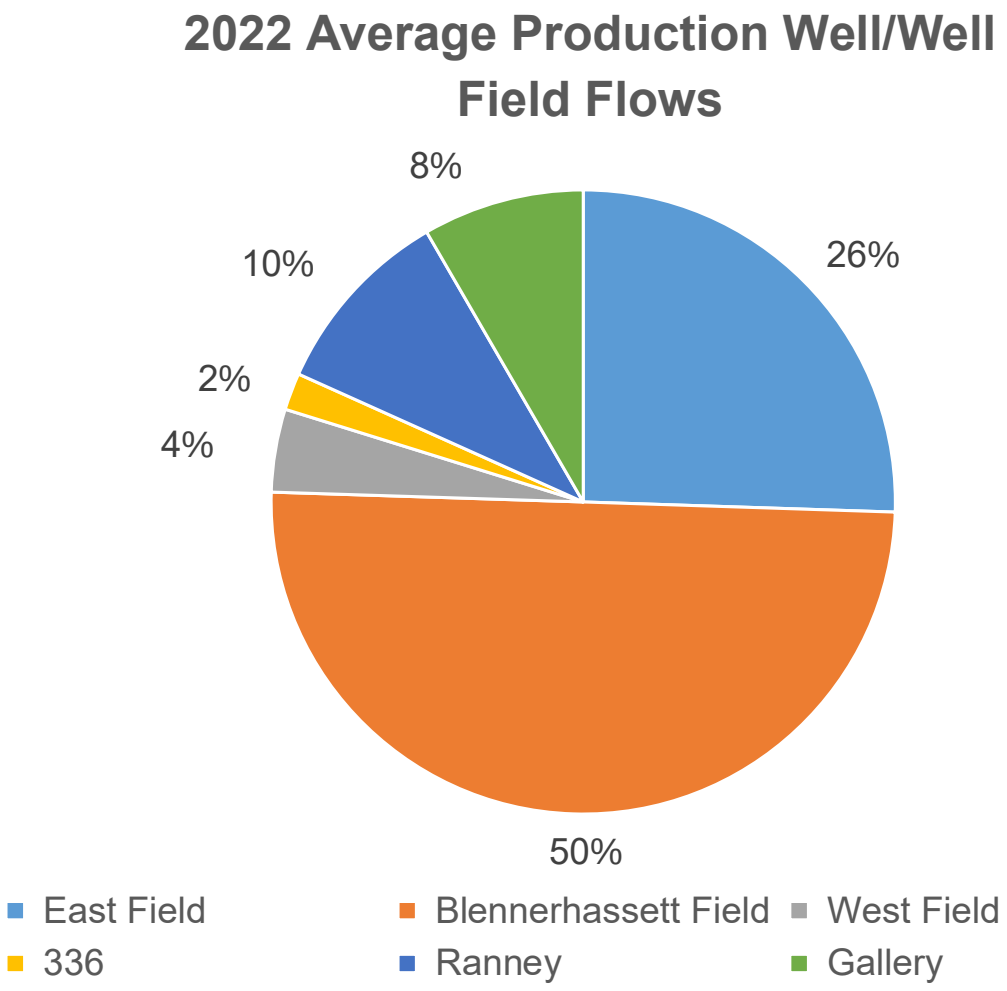

MAP FORMATTED FOR "A" (8.5" X 11") SIZE SHEET. TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.	TASK NUMBER: 23002 DESIGNED BY: K. DAVIS DRAWN BY: G. TANASE DATA QUALITY CHKD: G. GREGORY	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	2022 AVERAGE PRODUCTION WELL/WELL FIELD FLOWS 2023 Updated Conceptual Site Model Report Chemours Washington Works Plant Washington, West Virginia	PROJECT NO.: 60713438 DATE: 2/20/2024 FIGURE NO.: 2-9

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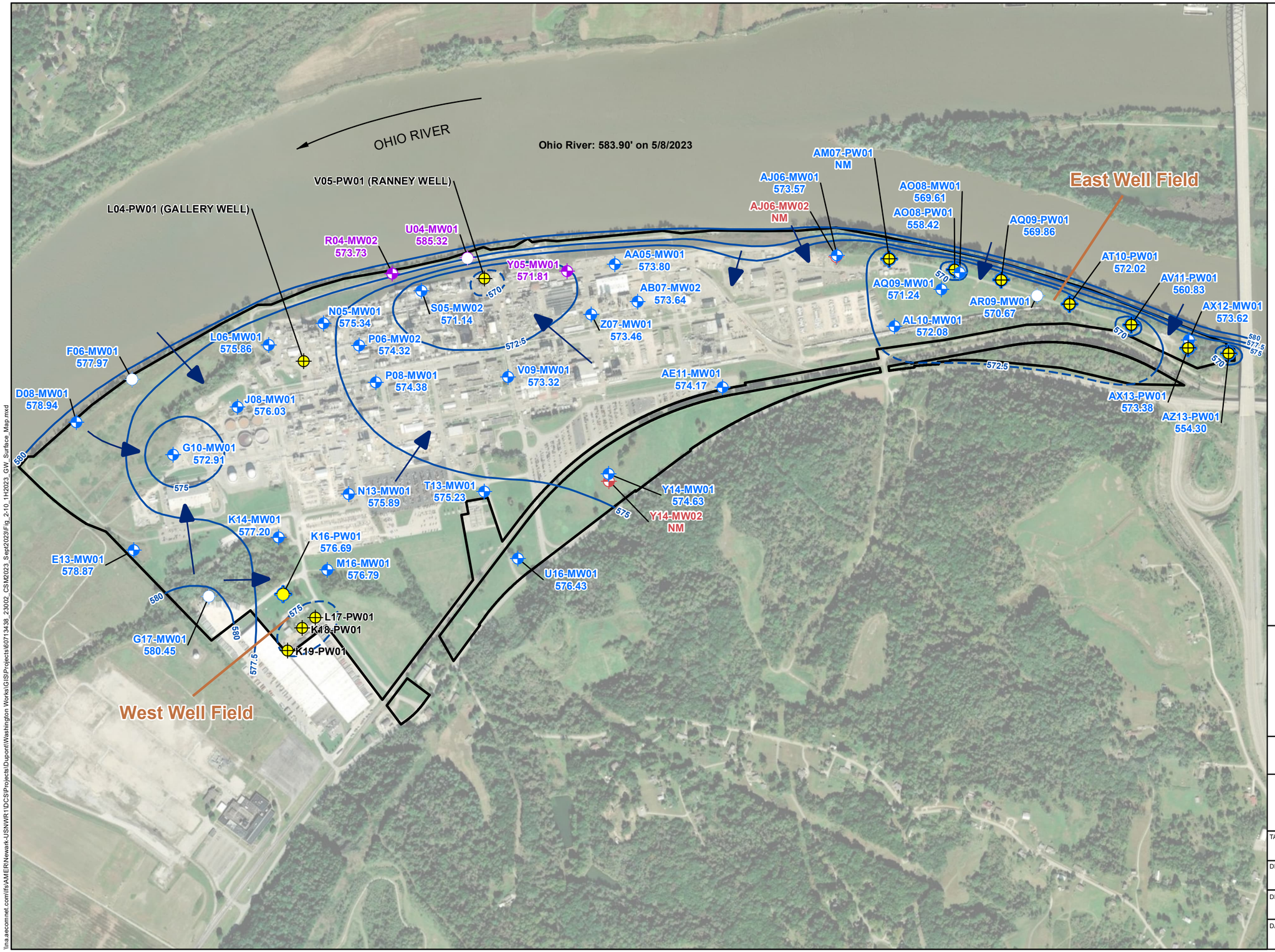


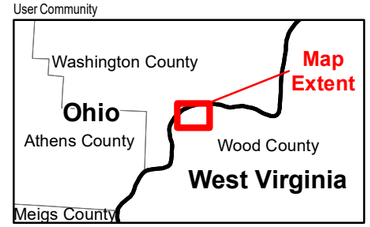
Legend

- Alluvial Aquifer Monitoring Well Measurement
- Alluvial Aquifer Production Well Measurement
- Bedrock Monitoring Well Measurement (Not Used in Contouring)
- Perched Water Table Measurement (Not Used in Contouring)
- Production Well – Alluvial Aquifer/River Water
- Groundwater Elevation Contour (ft)
- Groundwater Elevation Contour (ft) (Estimated)
- Groundwater Flow Direction
- Site Boundary

Notes:
Groundwater elevations measured 5/8/2023. Contour elevations are interpreted based on alluvial aquifer measurements.

Ohio River Data from USGS Gage Station at Parkersburg, WV
https://waterdata.usgs.gov/nwis/dv?referred_module=sw&site_no=03151000
DESCRIPTION: Latitude 39°16'05", Longitude 81°33'50" NAD27
Wood County, West Virginia, Hydrologic Unit 05030202
Drainage area: 35,650 square miles
Contributing drainage area: 35,650.00 square miles,
Datum of gage: 560.60 feet above NAVD88.

2018 Vivid World Imagery Source: Maxar
Service Layer Credits: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



0 400 800 1,600
Feet
1 inch = 800 feet

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First Half 2023 Groundwater Surface Map

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: G. GREGORY	DATE: 2/26/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 2-10
DATA QUALITY CHECK BY: G. GREGORY	

\\na.aecomnet.com\fs\AMER\Newark-USNWR1\DCS\Projects\Dupont\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_2-10_1H2023_GW_Surface_Map.mxd

Little Hocking PWS

Ohio River

Blennerhassett Island

West Well Field

C:\Users\tanasegj\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_2-11_2003_GW_Model.dwg

TASK NUMBER:	23002
DESIGNED BY:	
DRAWN BY:	DEL
DATA QUALITY CHKD:	MPS

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2003 Groundwater Model
Model-Simulated Potentiometric Surface

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

Site Boundary

Landfill

OUTLET 001
OUTLET 002
OUTLET 003
OUTLET 005
OUTLET 006
OUTLET 007
OUTLET 011

WW-001A
WW-001B
WW-001C
WW-001D
WW-001E
WW-001F
WW-001G
WW-001H
WW-001I
WW-002A
WW-002B
WW-002C
WW-002D
WW-003A
WW-003B
WW-003C
WW-003D
WW-003E
WW-003F
WW-005A
WW-005B
WW-005C
WW-005D
WW-005E
WW-005F
WW-005G
WW-006A
WW-006B
WW-006C
WW-006D
WW-006E
WW-007A
WW-007B
WW-007C
WW-011A
WW-011B
WW-011C
WW-016A
WW-022A
WW-023A
WW-025A
WW-026A
WW-030A
WW-031A
WW-031B
WW-032A
WW-032B
WW-033A
WW-033B
WW-034A
WW-034B
WW-036A
WW-036B

001 (0.018)
001 (0.043)
001 (0)
001-01
001-02
001-03
001-04
001-05
001-07
001-08
001-09
001-10
001 (0.0023)
002 (0.7209)
002 (0.351)
002 (0)
002 (0.057)
002 (0.4887)
002 (1.9712)
002 (1.6393)
002 (3.145)
002 (0.019)
002 (0.277)
002-01
002-03
002-04
002-05
002-09
002-10
002-11
003 (1.746)
003 (0.0042)
003 (0.008)
003 (0.026)
003 (0.132)
003 (1.039)
003 (0.1726)
003 (0)
003-09
003-10
003-11
003-12
005 (0.3448)
005 (0.173)
005 (0.2843)
005 (16.6456)
005 (0.003)
005 (0.325)
005 (3.667)
005 (6.612)
005-01
005-02-Adjusted
005-02-Initial
005-07
005-09
005-10
006-01
006-02
006-03
006-04
007 (1.054)
007 (0.387)
007-01
007-04-Adjusted
007-04-Initial
007-06
007-07
007-08
007-09
007-10
007-11
011-A
011-B
011-C
011-Nalgene
031-A
031-F
032-A
032-F
033-A
033-F
034-A
034-F
036 Pooled-Top
036 Pooled-Bottom
036-A
036-F
036-F Pooled
036-F2

Legend

- Process Water Sample
- Stormwater Sample
- D5 Sample Point
- Outlet
- Process Flow Input

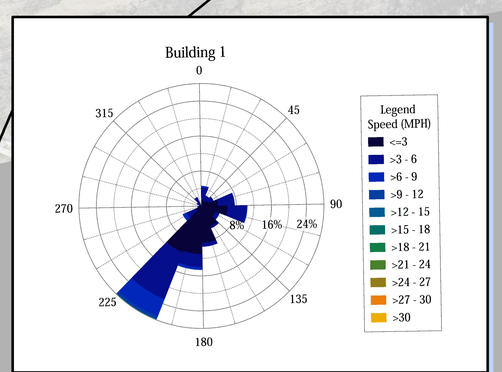
Inlet/Process/Storm Sewer Lines

- Inlet
- Process Line To Outfall 002
- Process Line To Outfall 005
- Storm Sewer Line To Outfall 001
- Storm Sewer Line To Outfall 003
- Storm Sewer Line To Outfall 006
- Storm Sewer Line To Outfall 007

Outfalls

- 001
- 002
- 003
- 005
- 006
- 007
- 011
- 016
- 019
- 022
- 023
- 025
- 026
- 030
- 031
- 032
- 033
- 034
- 036

- Subcatchment Area
- Property/Landfill Boundaries



2022 Aerial Source: Cooper



0 100 200 400
Feet
1 inch = 200 feet
MAP FORMATTED FOR 11" X 17" (TABLOID) SHEET.
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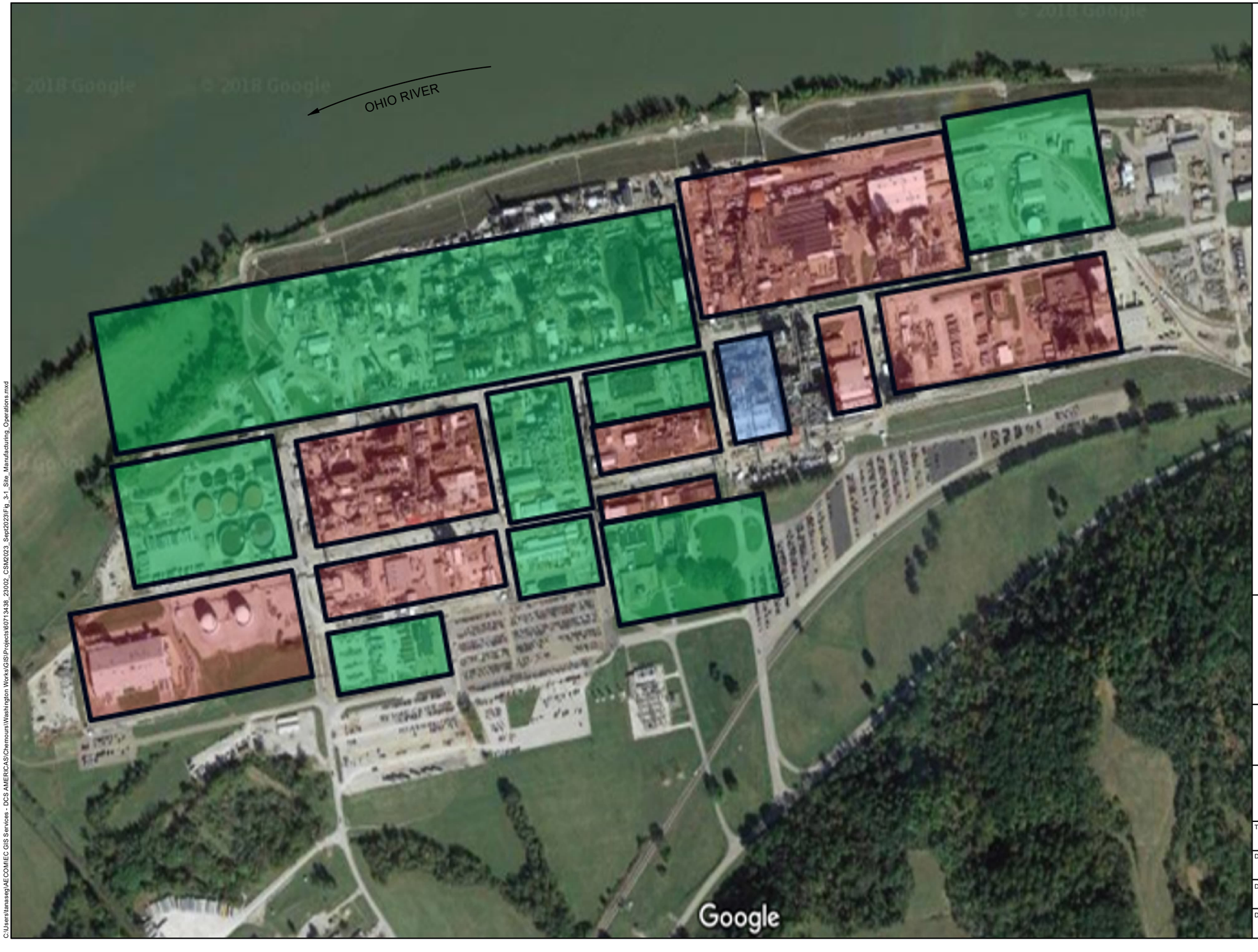
Newark, DE 19702

DRAINAGE BASINS AND SUB-CATCHMENT AREAS

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: M. ZENKER	DATE: 2/26/2024
DRAWN BY: C. DUFFY	FIGURE NUMBER: 2-12
DATA QUALITY CHECK BY: M. ZENKER	

\\na-aecomnet.com\Shared\Projects\60713438\Chemours\Washington_Works\GIS\Figures\Figure_Sheets\SWPPP\Figure_2-12_Drainage_Basins_and_Sub-Catchments_Areas.mxd

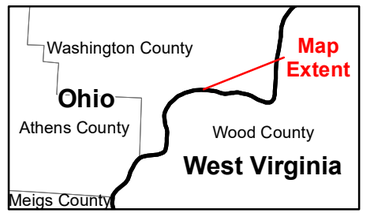


Legend

Site Manufacturing Operations

- Delrin USA, LLC & Celanese Corporation
- Chemours
- Kuraray Co. Ltd.

Imagery Source: Google Maps, 2018



N
W E
S

0 250 500 1,000

Feet

1 inch = 500 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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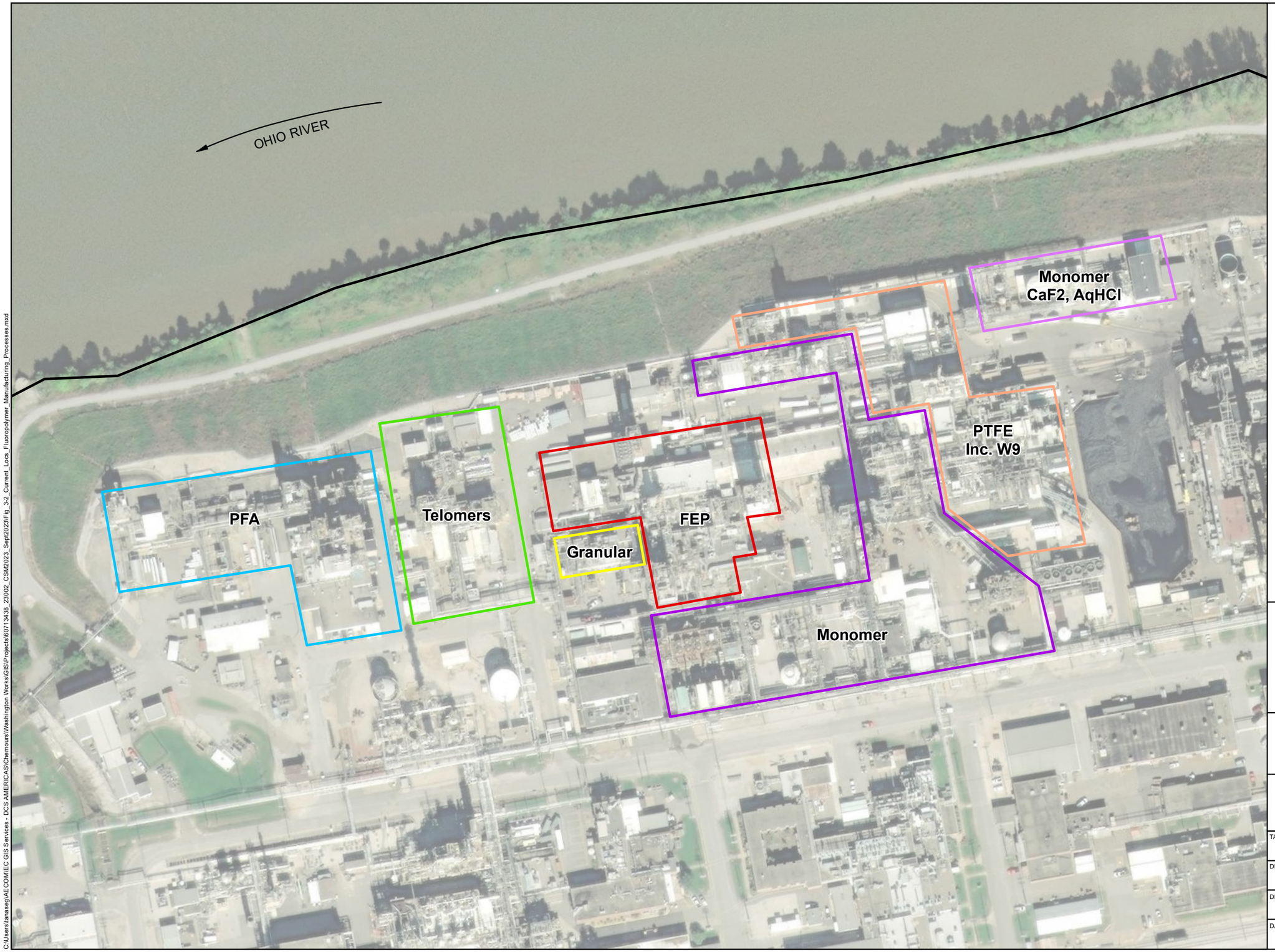
Chemours and Tenants Site Manufacturing Operations

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: K. DAVIS	DATE: 2/28/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 3-1
DATA QUALITY CHECK BY: G. GREGORY	

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_3-1_Site_Manufacturing_Operations.mxd



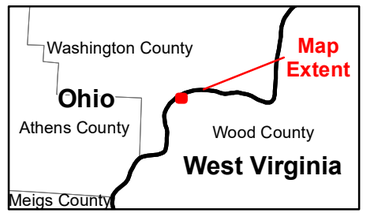
Legend

- Site Boundary

Fluoropolymer Manufacturing Processes

- FEP
- Granular
- Monomer
- Monomer CaF2, AqHCl
- PFA
- PTFE Inc. W9
- Telomers

2018 Vivid Imagery Source: Maxar



N

W E

S

0 75 150 300

Feet

1 inch = 150 feet

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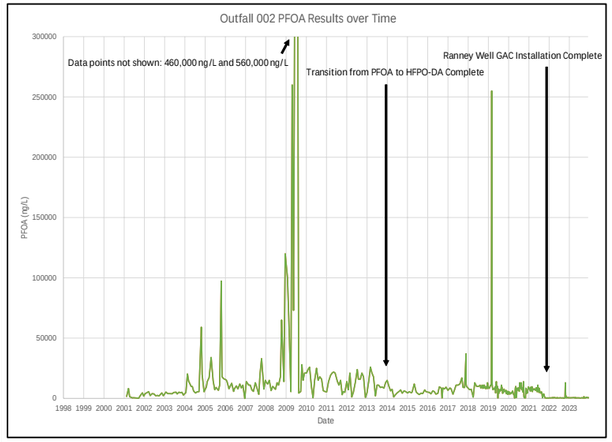
Suite 101
Newark, DE 19702

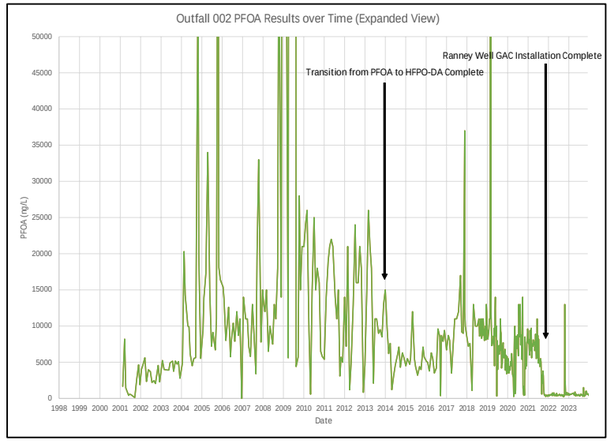
Current Locations of Fluoropolymer Manufacturing Processes

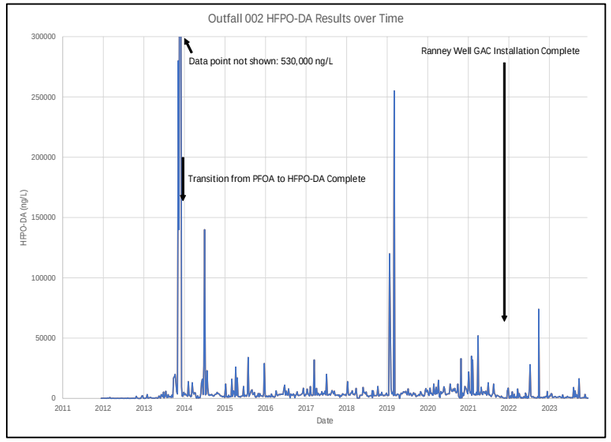
2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

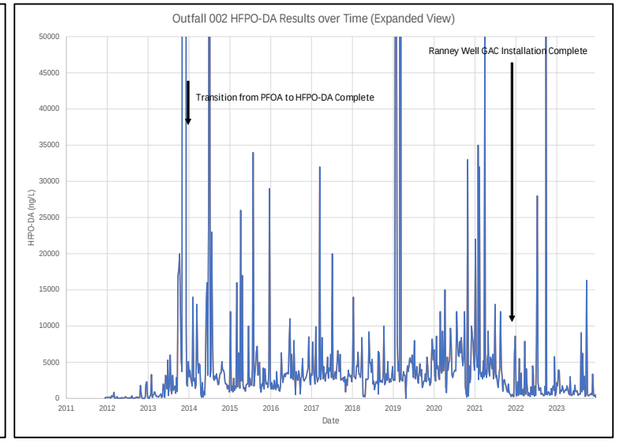
TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: K. DAVIS	DATE: 2/26/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 3-2
DATA QUALITY CHECK BY: G. GREGORY	

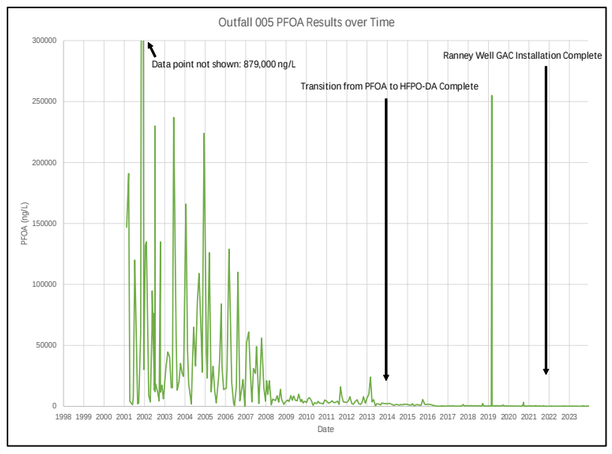
C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_3-2_Current_Locs_Fluoropolymer_Manufacturing_Processes.mxd

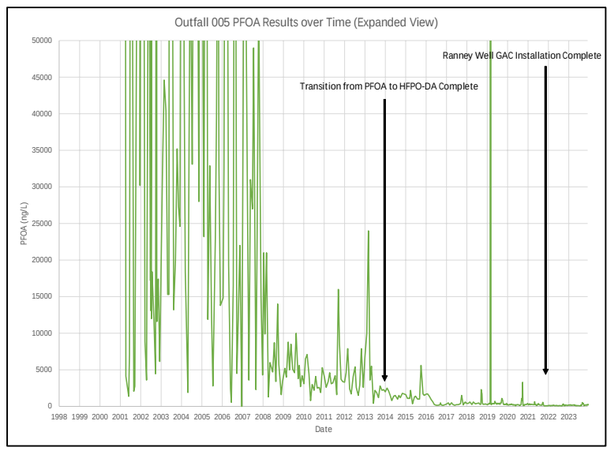


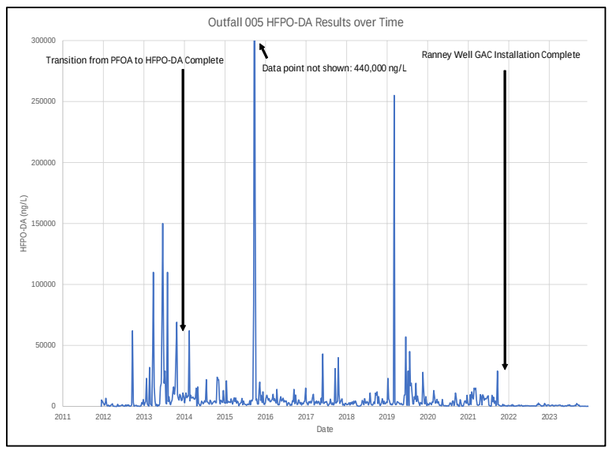


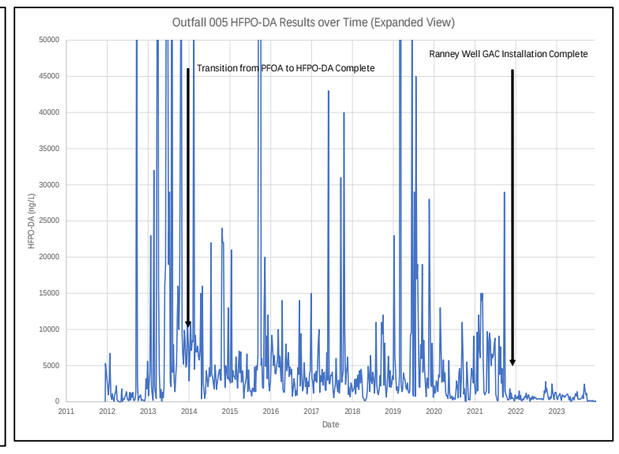












Notes:
1. By the end of 2013, the transition to HFPO-DA as a replacement chemistry for PFOA was complete.
2. Ranney Well underwent installation of a granular activated carbon (GAC) treatment system between September 2021 and November 2021.
3. Timeframes and concentration ranges are variable in the charts shown.

TASK NUMBER: 23002	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	OUTFALL 002 AND OUTFALL 005 – PFOA AND HFPO-DA OVER TIME	PROJECT NO.: 60713438
DESIGNED BY: K. DAVIS			DATE: 12/05/2024
DRAWN BY: G. TANASE		2023 Updated Conceptual Site Model Report Chemours Washington Works Plant Washington, West Virginia	FIGURE NO.: 3-3
DATA QUALITY CHKD: G. GREGORY			

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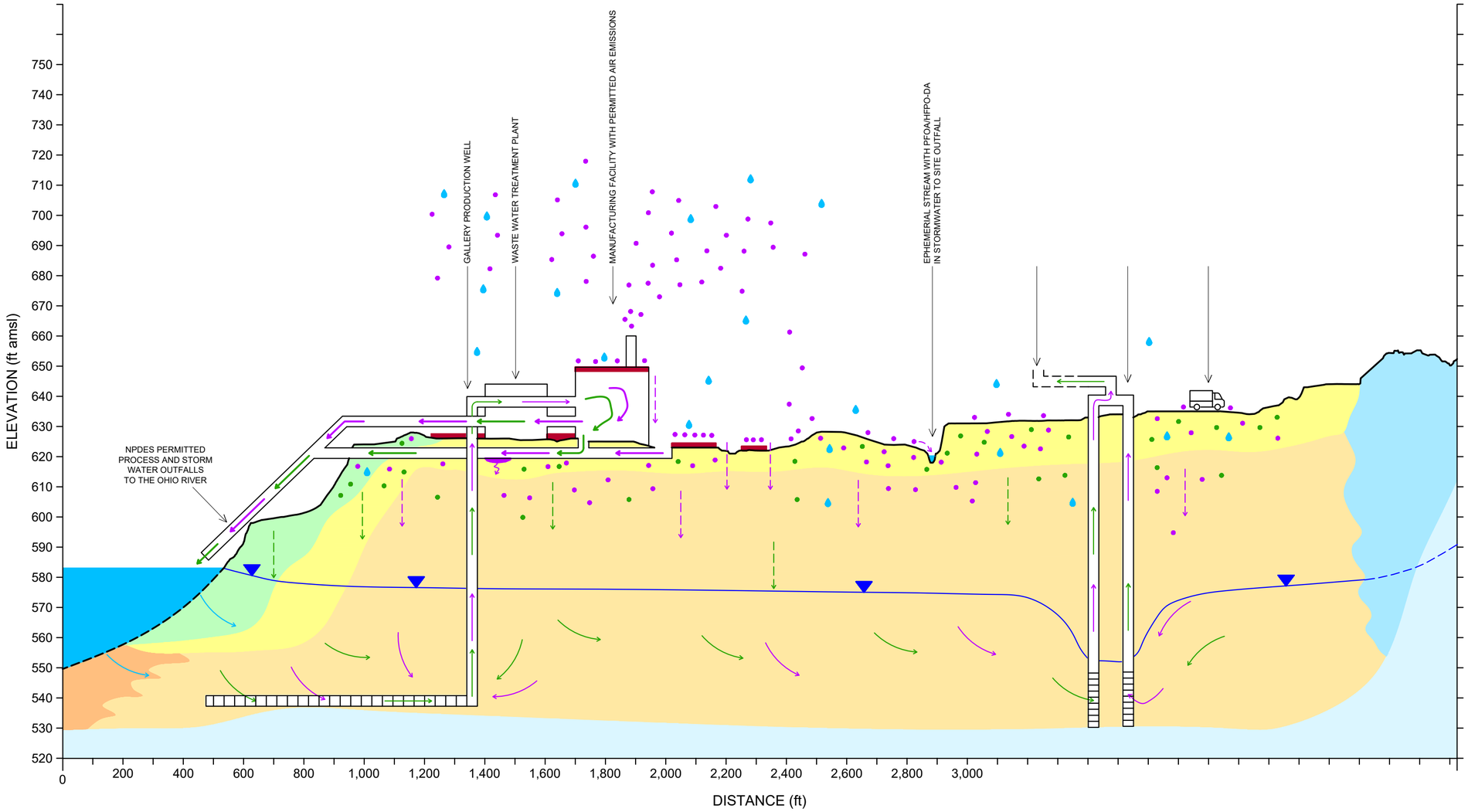

LEGEND

- HOLOCENE SILT AND CLAY
- HOLOCENE SAND
- REWORKED PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- WEATHERED SHALE / SANDSTONE
- PERMIAN BEDROCK (SHALE / SANDSTONE CONSOLIDATED UNIT)
- HFPO-DA MIGRATION VIA PRECIPITATION
- PFOA MIGRATION VIA PRECIPITATION
- RIVER WATER RECHARGE
- PRECIPITATION AND INFILTRATION INTO SOIL
- GROUNDWATER WITH HFPO-DA
- GROUNDWATER WITH PFOA
- PROCESS / STORMWATER WITH HFPO-DA
- PROCESS / STORMWATER WITH PFOA
- RELEASE OF HFPO-DA TO SOIL / SUBSURFACE SOIL
- GROUNDWATER ELEVATION
- HFPO-DA IN CURRENT AIR EMISSIONS
- PFOA FROM HISTORICAL AIR EMISSIONS
- IMPERMEABLE SURFACE
- OFF-SITE MANAGEMENT OF SOLID/LIQUID PROCESS WASTE AND WASTEWATER TREATMENT BIOSOLIDS VIA INCINERATION / LANDFILLING

23002	AECOM		60713438
K. DAVIS			12/05/2024
G. TANASE			
G. GREGORY			

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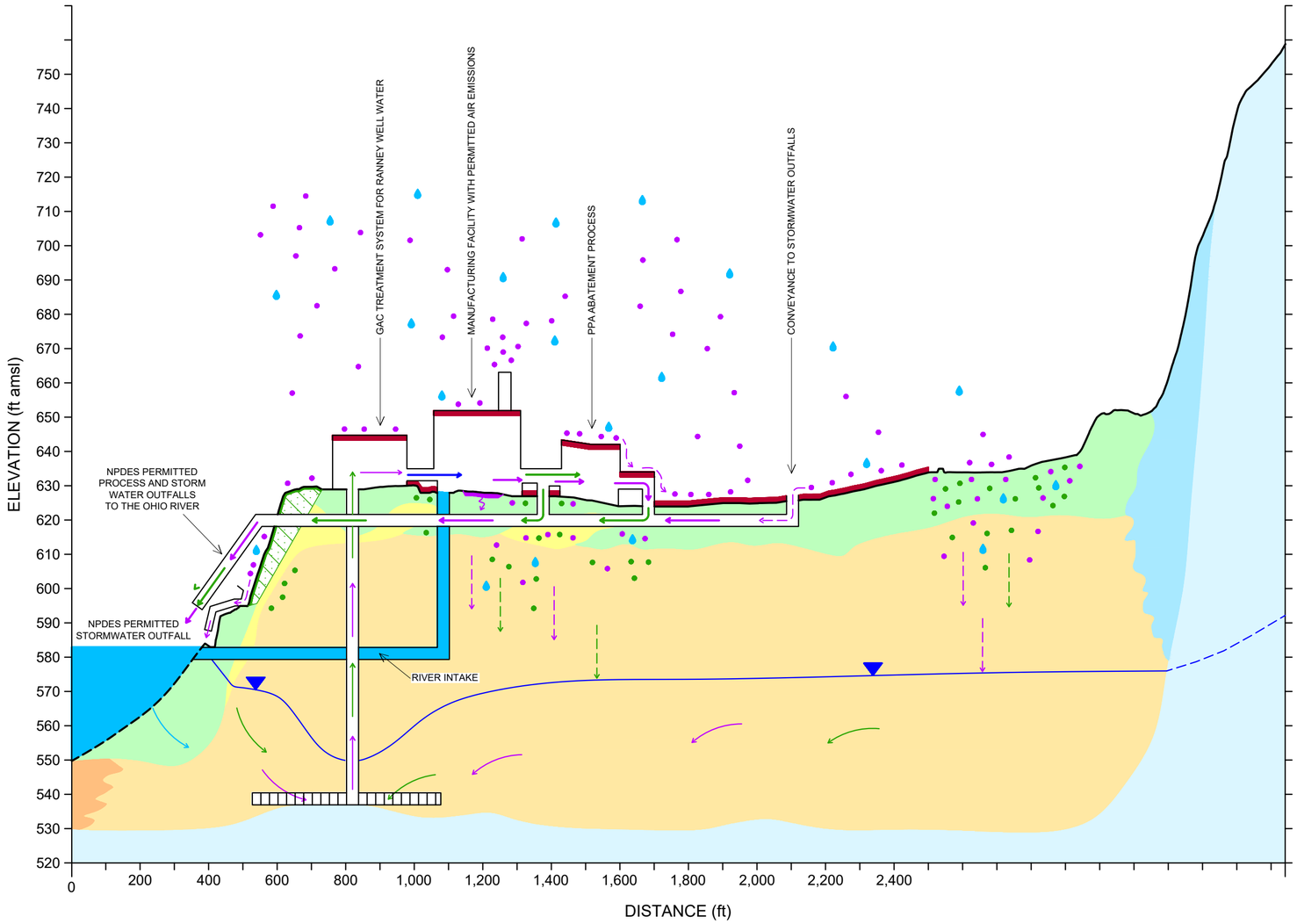

LEGEND

- HOLOCENE SILT AND CLAY
- HOLOCENE SAND
- REWORKED PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- WEATHERED SHALE / SANDSTONE
- PERMIAN BEDROCK (SHALE / SANDSTONE CONSOLIDATED UNIT)
- HFPO-DA MIGRATION VIA PRECIPITATION
- PFOA MIGRATION VIA PRECIPITATION
- RIVER WATER RECHARGE
- PRECIPITATION AND INFILTRATION INTO SOIL
- GROUNDWATER WITH HFPO-DA
- GROUNDWATER WITH PFOA
- PROCESS / STORMWATER WITH HFPO-DA
- PROCESS / STORMWATER WITH PFOA
- GAC TREATED WATER
- RELEASE OF HFPO-DA TO SOIL / SUBSURFACE SOIL
- GROUNDWATER ELEVATION
- HFPO-DA IN CURRENT AIR EMISSIONS
- PFOA FROM HISTORICAL AIR EMISSIONS
- IMPERMEABLE SURFACE
- MULTILAYER GEOSYNTHETIC LANDFILL CAP
- PFOA IN SOLID WASTE MANAGEMENT UNIT / LANDFILLED MATERIALS
- RIVER WATER INTAKE

23002	AECOM		60713438
K. DAVIS			12/05/2024
G. TANASE			
G. GREGORY			

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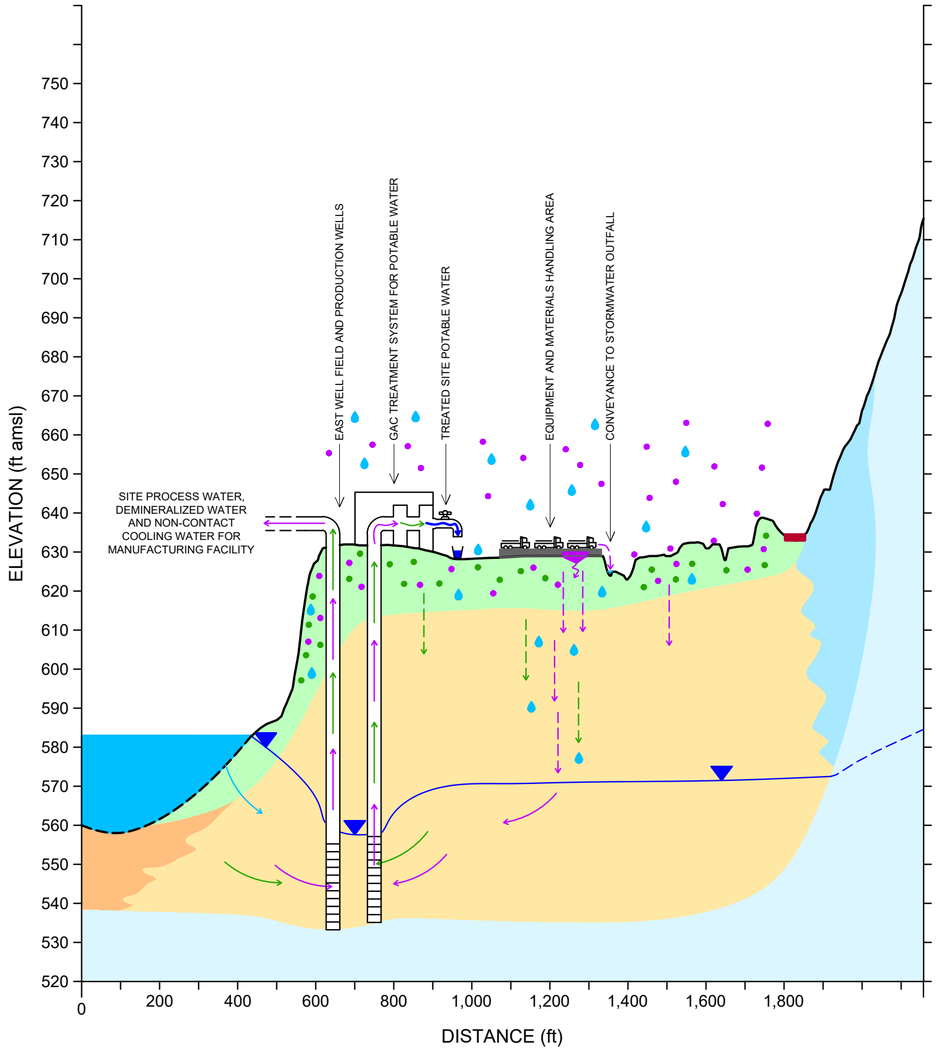

LEGEND

- HOLOCENE SILT AND CLAY
- REWORKED PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- WEATHERED SHALE / SANDSTONE
- PERMIAN BEDROCK (SHALE / SANDSTONE CONSOLIDATED UNIT)
- HFPO-DA MIGRATION VIA PRECIPITATION
- PFOA MIGRATION VIA PRECIPITATION
- RIVER WATER RECHARGE
- PRECIPITATION AND INFILTRATION INTO SOIL
- GROUNDWATER WITH HFPO-DA
- GROUNDWATER WITH PFOA
- GAC TREATED WATER
- RELEASE OF HFPO-DA TO SOIL / SUBSURFACE SOIL
- GROUNDWATER ELEVATION
- HFPO-DA IN CURRENT AIR EMISSIONS
- PFOA FROM HISTORICAL AIR EMISSIONS
- GAC TREATED SITE POTABLE WATER
- PERMEABLE GRAVEL PAD
- IMPERMEABLE SURFACE
- ROLLOFF FOR MATERIALS HANDLING

23002	AECOM		60713438
K. DAVIS			02/12/2024
G. TANASE			
G. GREGORY			

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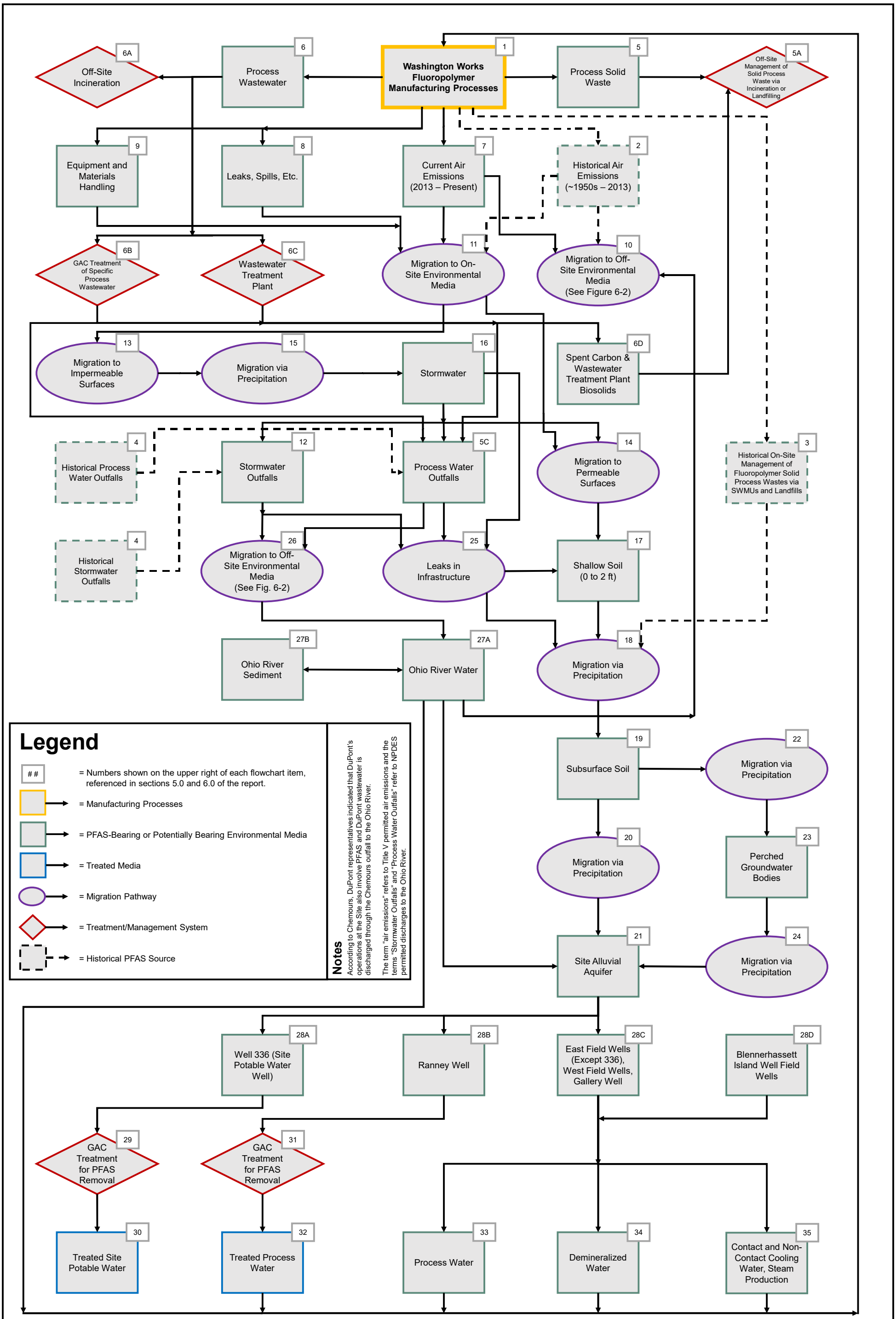
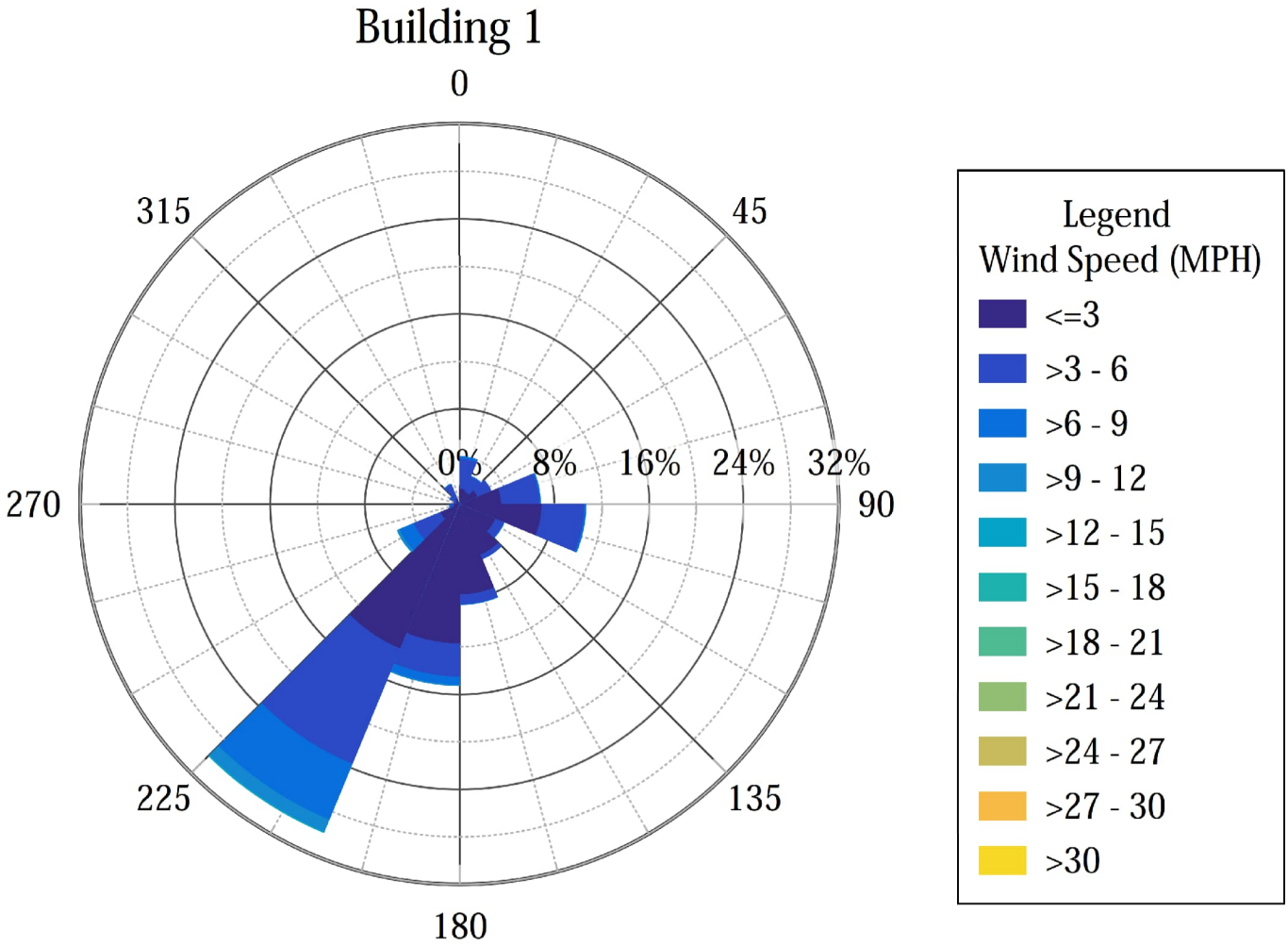


AECOM AECOM 248 Chapman Road Suite 101 Newark, DE 19702	TASK NUMBER: 23001OFF DRAWN BY: B. SIMEONE	DESIGNED BY: K. DAVIS DATA QUALITY CHECK BY: G. GREGORY	2023 Updated Conceptual Site Model Report Chemours Washington Works Washington, West Virginia	On-Site PFAS Conceptual Site Model	PROJECT NUMBER: 60713438 DATE: 2/2/2024 FIGURE NUMBER: 5-4



MAP FORMATTED FOR "A" (8.5" X 11") SIZE SHEET. TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.	TASK NUMBER: 23002 DESIGNED BY: K. DAVIS DRAWN BY: G. TANASE DATA QUALITY CHKD: G. GREGORY	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	WIND ROSE FOR THE SITE FROM JUNE - NOVEMBER 2022 2023 Updated Conceptual Site Model Report Chemours Washington Works Plant Washington, West Virginia	PROJECT NO.: 60713438 DATE: 1/17/2024 FIGURE NO.: 5-5

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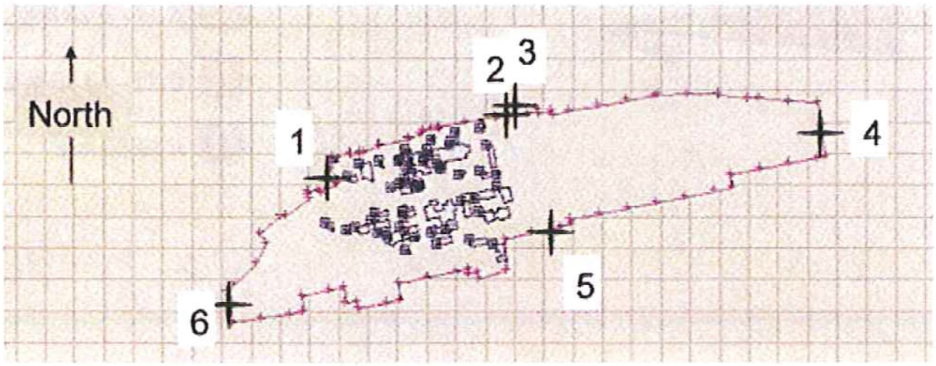

Figure 1. Receptor locations.

Table 3. Summary of fence line results for modeling and monitoring.

Event	Date	Receptor Location	Modeled Value, μg/m³	Monitored Value, μg/m³	Overprediction
1	11/05/03	AMS-1	0.00	<0.14	—
2	11/11/03	—	0.23	<0.14	1.6
3	11/29/03	—	0.00	<0.14	—
4	12/10/03	—	1.28	0.3	4.3
5	12/11/03	—	0.00	<0.12	—
6	1/15/04	—	0.00	<0.14	—
1	11/05/03	AMS-2/3	1.79	0.075	23.9
2	11/11/03	—	3.84	0.9	4.3
3	11/29/03	—	3.00	0.7	4.3
4	12/10/03	—	0.83	0.3	2.8
5	12/11/03	—	0.11	<0.14	—
6	1/15/04	—	0.00	<0.17	—
1	11/05/03	AMS-4	0.10	<0.14	—
2	11/11/03	—	0.00	<0.14	—
3	11/29/03	—	—	[a]	—
4	12/10/03	—	0.02	<0.12	—
5	12/11/03	—	1.02	<0.14	7.3
6	1/15/04	—	0.03	<0.14	—
1	11/05/03	AMS-5	0.01	<0.14	—
2	11/11/03	—	0.21	<0.14	1.5
3	11/29/03	—	0.00	<0.14	—
4	12/10/03	—	0.00	<0.14	—
5	12/11/03	—	0.00	<0.14	—
6	1/15/04	—	0.53	0.3	1.8
1	11/05/03	AMS-6	0.02	<0.14	—
2	11/11/03	—	0.00	<0.14	—
3	11/29/03	—	0.00	<0.14	—
4	12/10/03	—	0.10	<0.12	—
5	12/11/03	—	—	[a]	—
6	1/15/04	—	0.00	<0.14	—

[a]Pump failure; no sample collected.

Table 4. Average particle size distribution for PFOA at fence line.

Particle Diameter, μm	Mass Fraction %
>4.0	5.6
1.7	12.9
0.8	9.2
0.5	7.2
0.3	5.3
<0.28	59.8

Table 5. Mass concentration of PFOA for 72-hr high-volume sampling.

Station	Mass Concentration (μg/m³)
Station 1	0.0099
Station 2	0.1099
Station 3	0.1030
Station 5	0.0034

Reference:
Barton CA, Butler LE, Zarzecki CJ, Flaherty J, Kaiser M. Characterizing perfluorooctanoate in ambient air near the fence line of a manufacturing facility: comparing modeled and monitored values. *J Air Waste Manag Assoc.* **2006** Jan;56(1):48-55.

	TASK NUMBER: 23002	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	FENCE LINE AIR MONITORING - NOVEMBER 2003 TO MARCH 2004
	DESIGNED BY: K. DAVIS		
	DRAWN BY: G. TANASE		2023 Updated Conceptual Site Model Report Chemours Washington Works Plant Washington, West Virginia
MAP FORMATTED FOR "A" (8.5" X 11") SIZE SHEET. TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.	DATA QUALITY CHKD: G. GREGORY		

PROJECT NO.:	60713438
DATE:	2/12/2024
FIGURE NO.:	5-6

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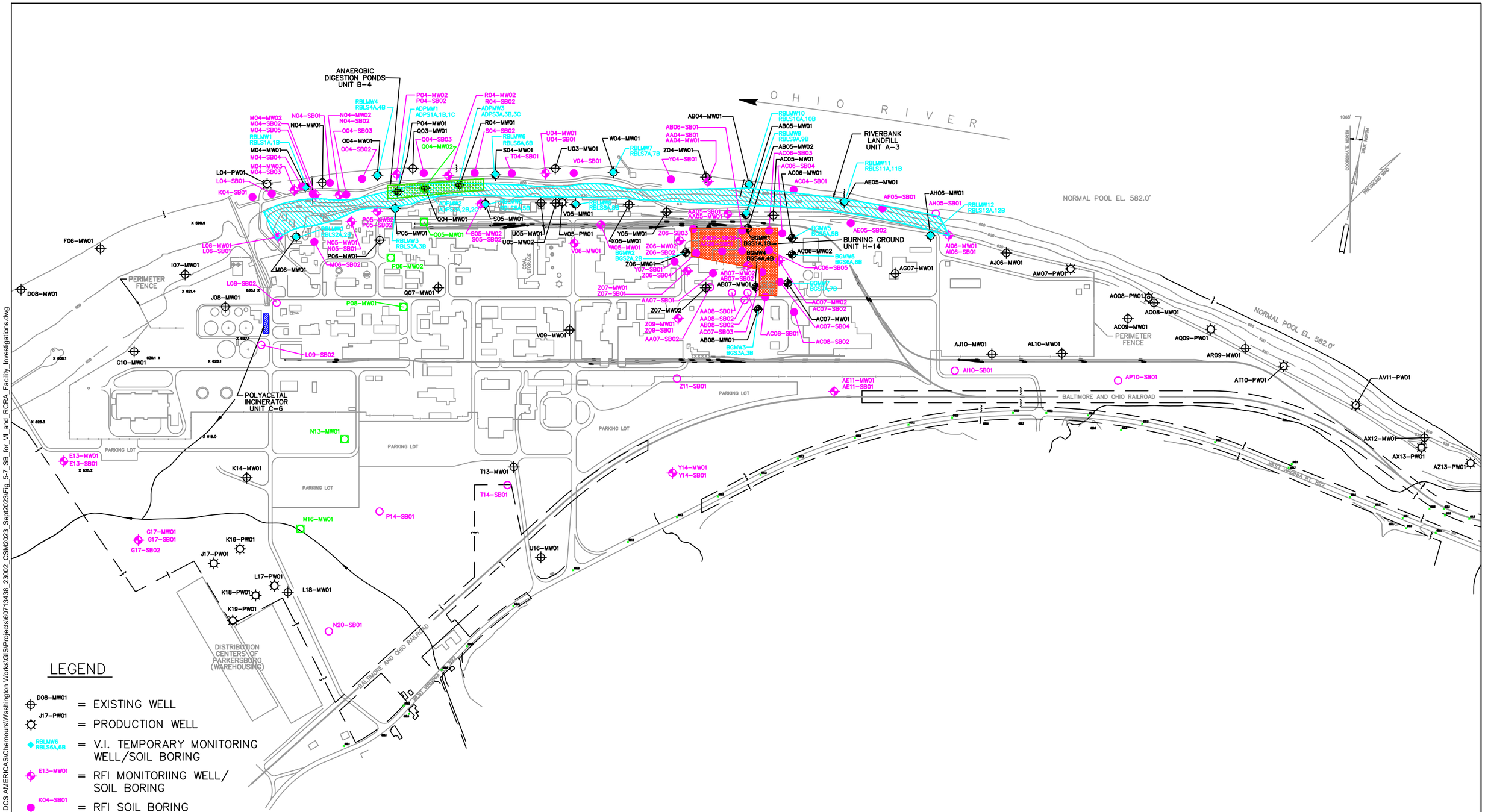

TASK NUMBER: 23002	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	Soil Boring Locations for Verification Investigation and RCRA Facility	60713438
DESIGNED BY: DEL			08/08/2008
DRAWN BY: DEL		2023 Updated Conceptual Site Model Report Chemours Washington Works Plant Washington, West Virginia	
DATA QUALITY CHKD: GG			

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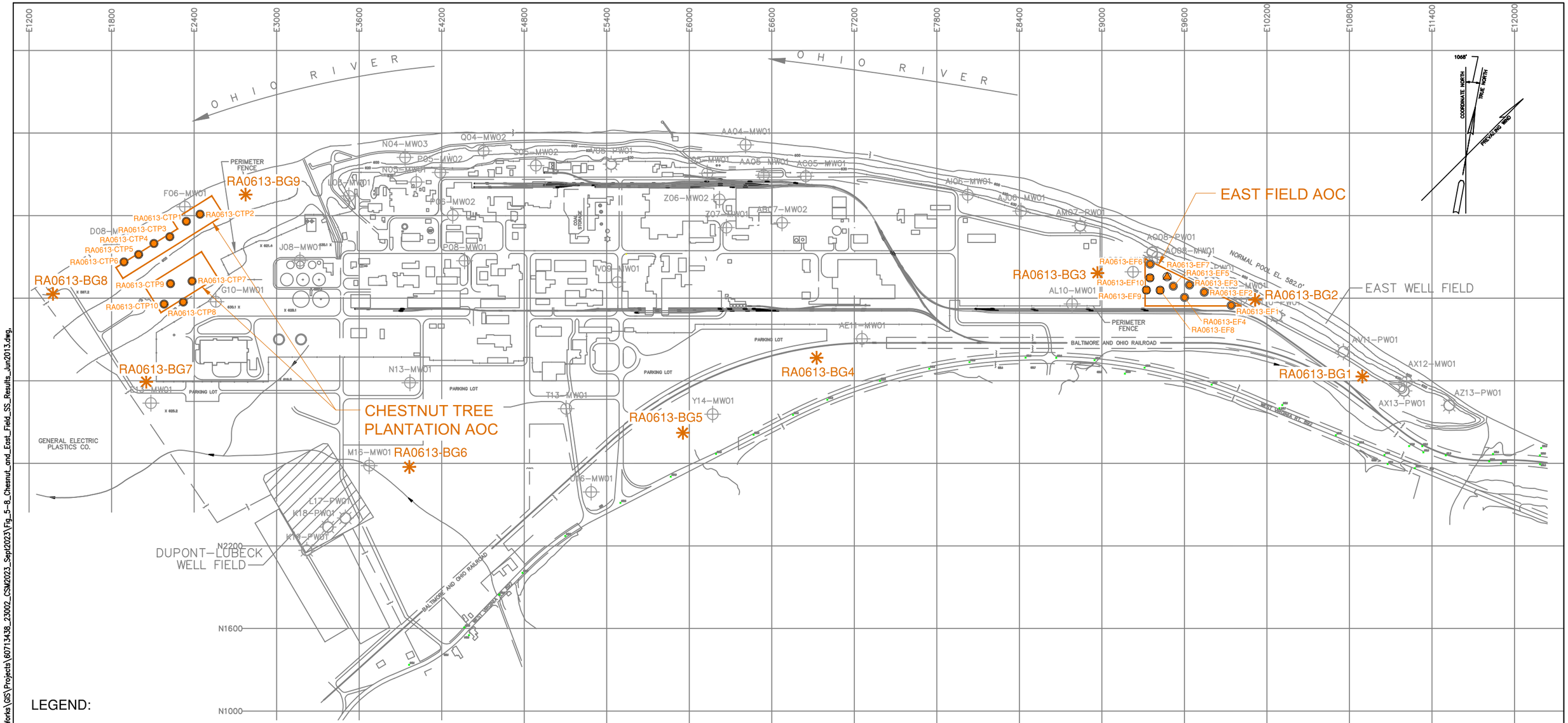

LEGEND:

- APPROXIMATE LOCATION OF AREA OF CONCERN (AOC)
- MONITORING WELL
- PRODUCTION WELL
- RELEASE ASSESSMENT SITE-SPECIFIC BACKGROUND SOIL SAMPLING LOCATION
- RELEASE ASSESSMENT SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- RELEASE ASSESSMENT SUBSURFACE SOIL SAMPLE LOCATION
- PROPOSED RELEASE ASSESSMENT SUBSURFACE SOIL SAMPLE LOCATION NOT SAMPLED
- 20 FT. SAMPLE ACCURACY DEVIATION

SCALE

700’ 0 700’

TASK NUMBER:	23002
DESIGNED BY:	K. DAVIS
DRAWN BY:	G. TANASE
DATA QUALITY CHKD:	G. GREGORY

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Chestnut Tree Plantation and East Field AOCs Release Assessment - June 2013 Soil Sampling Locations

60713438

02/06/2024

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

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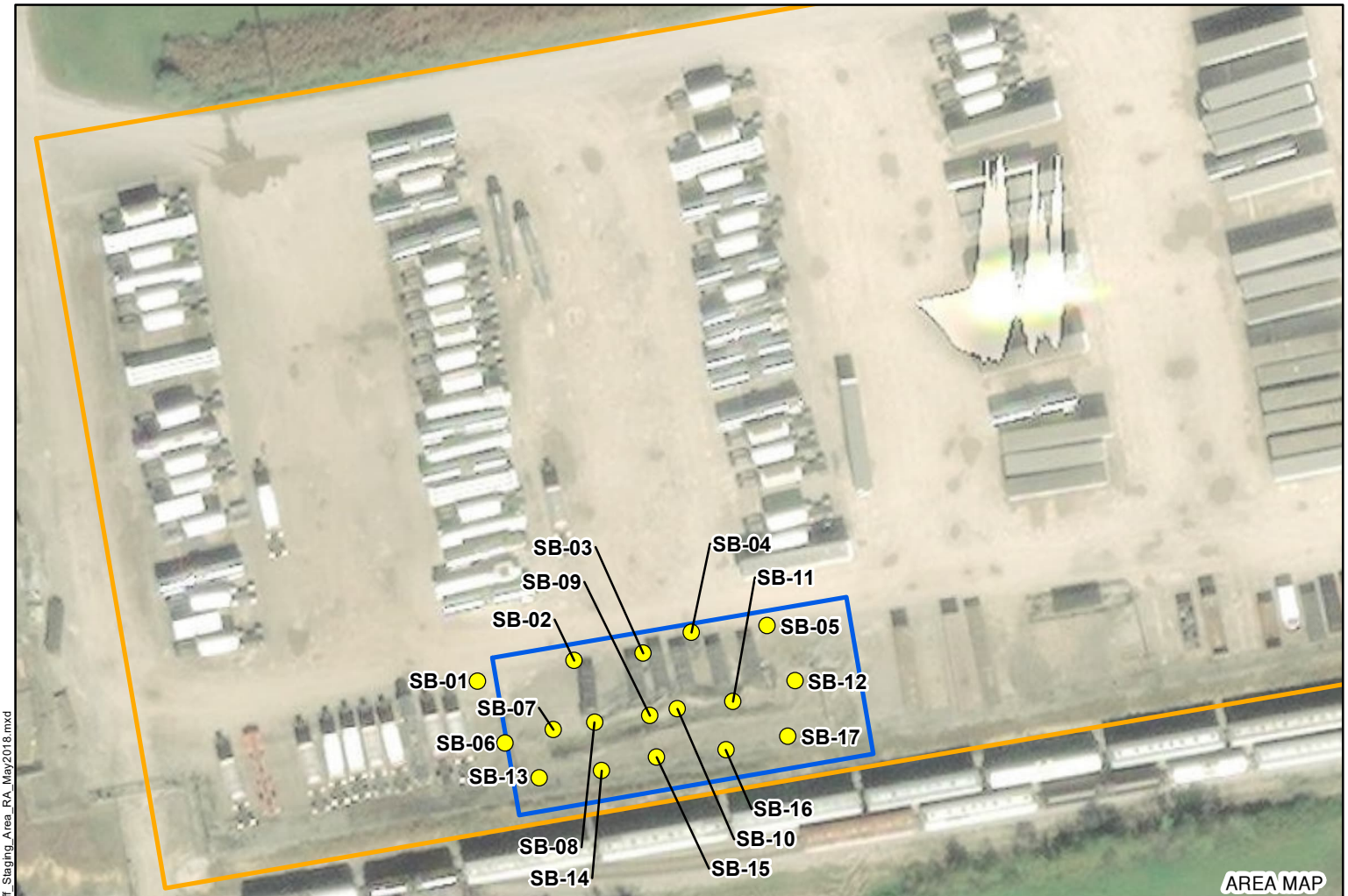

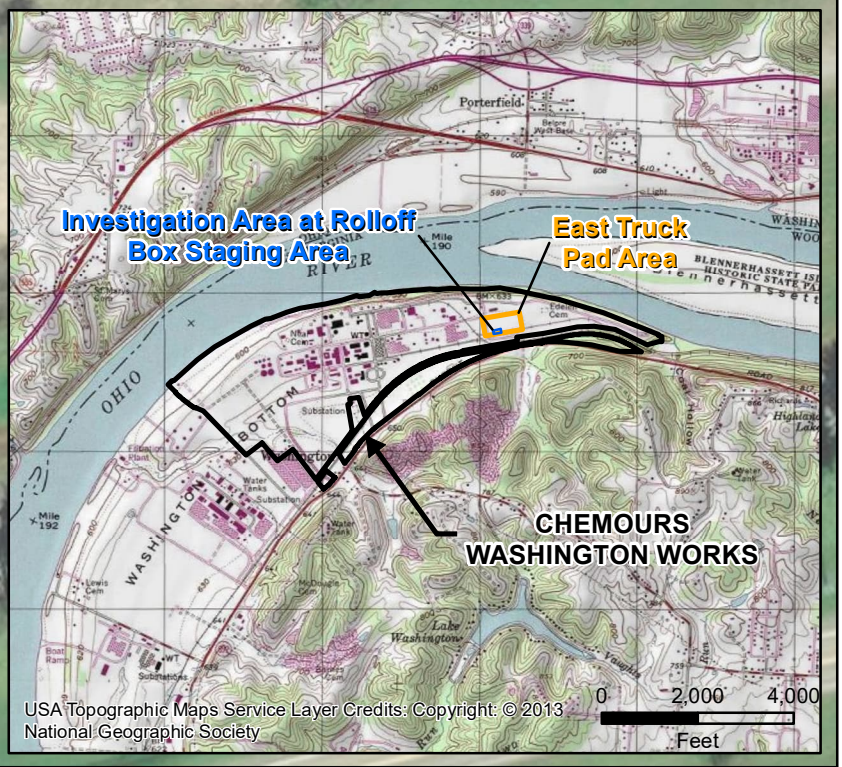

Legend

- Soil Boring Location
- East Truck Pad Area
- Investigation Area at Rolloff Box Staging Area

2018 Vivid-USA Aerial Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

0 40 80
Feet
1 inch=80 feet

MAP FORMATTED FOR "A" (8.5" X 11") SIZE SHEET. SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

TASK NUMBER: 23002
DESIGNED BY: K. DAVIS
DRAWN BY: G. TANASE
DATA QUALITY CHECK BY: G. GREGORY

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East Pad Roll-Off Staging Area Release Assessment Soil Sampling Location - May 2018

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

PROJECT NUMBER: 60713438
DATE: 2/12/2024
FIGURE NUMBER: 5-9

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M04-MW02	10/11/2023
HFPO-DA	150000
PFOA	60000
PFPA	6600
PFNA	5300
PFBA	2700
PFHxA	2600
3:3 FTCA	2200 J
PFDA	1900
PFHpA	1600
5:3 FTCA	900 J
7:3 FTCA	140 J
PFOS	130
PFHxS	88
PFUnA	63
PFECA-A	25
PFECA-F	21
PFPeS	16
PFBS	15
PFDoA	13
PFHpS	5.2

RANNEY WELL PRE-GAC	3/23/2021
PFOA	36000
HFPO-DA	13000 J
PFHxA	1100
PFHpA	820 J
PFDA	450
PFPA	380
PFNA	330
PFBA	420
PFHxS	65
PFOS	39 J

RANNEY WELL POST-GAC	10/10/2023
PFBA	150

River Intake	10/10/2023
PFBS	4.8
PFOA	3.9
PFHxA	2.6
PFOS	2.2

AM07-PW01	10/10/2023
PFOA	220
HFPO-DA	83
PFOS	3.4
PFHxA	2.9
PFHpA	2.8
PFBS	2.7

AO08-PW01	6/21/2023
HFPO-DA	2200
PFOA	1200
PFHxS	150
PFHxA	56
PFHpA	42
PFBS	9.1
PFOS	7
PFNA	3.5
PFTriA	2.1
PFTeA	2

AQ09-PW01	6/21/2023
PFOA	2300
HFPO-DA	1500
PFHpA	63
PFHxA	40
PFHxS	12
PFOS	6.1
PFBS	3.6
PFNA	2.5

L06-MW01	10/12/2023
PFOA	3500
PFOS	110 J

N05-MW01	10/12/2023
PFOA	4400
PFDA	490
PFHxA	110

GALLERY WELL	5/8/2023
PFOA	3700
HFPO-DA	280
PFHxA	190
PFHpA	130
PFPA	90
PFBA	74
PFNA	44
PFDA	28
PFHxS	4.8
PFOS	3.4
PFBS	2

AE11-MW01	10/11/2023
PFOA	16000
HFPO-DA	1500
PFHpA	280
PFHxA	86
PFBA	63
PFPA	38
PFNA	8.6
PFOS	7.8

EAST WELL WATER	12/12/2023
HFPO-DA	590
PFOA	510
PFHxS	22
PFHxA	13
PFHpA	10
PFBA	9.6
PFOS	4.1
PFBS	3.9
PFPeS	2.8

AX13-PW01	9/20/2018
PFOA	280
HFPO-DA	23
PFHxA	13
PFHxS	10
PFOS	6.2
PFBA	5.7
PFHpA	5.6
PFPA	3.4 J
PFBS	3.3
PFNA	1 J

D08-MW01	10/11/2023
PFOA	12000
PFHpA	130
PFHxA	87
PFBA	52
HFPO-DA	28
PFPA	20
PFNA	5.3 J
PFHxS	3.4

Z07-MW01	10/12/2023
PFOA	4900
HFPO-DA	350
PFHpA	160
PFHxA	130

E13-MW01	10/11/2023
PFOA	3000 J
PFHxS	530
HFPO-DA	170
PFHxA	67
PFHpA	64
PFBA	44
PFPA	32
PFPeS	22
PFBS	11
PFHpS	6.6

P06-MW02	10/12/2023
PFOA	19000
HFPO-DA	1700
PFDA	1600
PFHxA	390
PFHxS	280
PFHpA	250
PFNA	220

T13-MW01	10/11/2023
PFOA	4700
PFHpA	150
PFHxA	130
PFBA	120
HFPO-DA	78
PFPA	57
6:2 FTS	24
PFHxS	9.1
PFNA	4.8
PFBS	4.1
PFDA	3.1
PFPeS	2.2
PFOS	1.6 J

WEST FIELD WELL HEADER 1	5/8/2023
PFOA	9600
HFPO-DA	300
PFHxS	140
PFHpA	85
PFHxA	69
PFOS	41 J
PFBA	39
PFPA	36
PFPeS	13
PFBS	11
PFNA	8.2
6:2 FTS	7.6
PFHpS	7.2

P08-MW01	10/12/2023
PFOA	21000
HFPO-DA	1500
PFHxS	640
PFHpA	590
PFHxA	380
PFDA	350

Legend

- Chemours Washington Works
- Monitoring wells for PFAS Sampling and/or groundwater elevation monitoring
- Production Well
- River Intake
- Field Header
- Groundwater Elevation Contour (ft)
- Groundwater Elevation Contour (ft) (Estimated)
- Groundwater Flow Direction

Notes:

1. Ranney Well granular activated carbon (GAC) treatment system installation was completed between September 2021 and November 2021. Samples collected after installation identified as “post-GAC” are of treated water. Samples collected prior to installation identified as “pre-GAC” are of untreated water and data shown are the last untreated results prior to the GAC treatment installation.
2. Posted databoxes contain PFAS concentration data in units of nanograms per liter (ng/L) for PFAS detected above the reporting limit for the last sampling event occurring between the dates of 8/21/2018 and 12/12/2023, with the sample date as indicated.
3. See Table 1-1 for a list of PFAS abbreviations used.
4. J = Reported value may not be accurate or precise.

N, W, E, S

0 500 1,000 2,000

Feet

1 inch = 1,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

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248 Chapman Road
Suite 101
Newark, DE 19702

Recent PFAS Detections Above the Reporting Limits for Production Wells, Monitoring Wells, Well Field Headers, and River Intake

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: K. DAVIS	DATE: 2/12/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 5-10
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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Outfall 007	12/7/2023
PFHxA	410
PFOA	336
PFBA	134
HFPO-DA	81.1
PFDA	77.4
PFDoA	39.8
PFPA	32.6
PFTeA	31.1
PFHpA	22
PFUnA	20
PFNA	16.1
PFTriA	8.02
PFECA-F	5.49
PFHxS	3.44
PFOS [II]	3.44 J
PFBS	2.45

Outfall 003	12/7/2023
PFOA	276
HFPO-DA	70.3
PFHxA	13.4
PFHpA	11.1
PFPA	8.6
PFBA	8.42
PFNA	5.21
PFDA [II]	2.96
PFHxS	2.26
PFBS	2.21

Outfall 002 (Pre-Ranney GAC)	7/15/2021
PFOA	8200
HFPO-DA	3200
PFHxA	370
PFHpA	200
PFBA	140
PFDA	85
PFPA	85
PFNA	77
PFHxS [II]	29
PFOS	14
PFBS	7.7

Outfall 002 (Post-Ranney GAC)	12/7/2023
PFOA	556
HFPO-DA	500
PFHxA	22
PFHpA	18.1
PFBA	15.1
PFPA	13.3
PFHxS	12.1
PFNA	5.46
PFBS	5.32
PFOS [II]	4.47
PFDA	2.86

Outfall 001	12/7/2023
HFPO-DA	1450
PFOA	292
PFDA	47.2
PFHxA	45.8
PFHxS	21.7
PFHpA	20.2
PFOS	18.1
PFNA	12.3
PFBA	12.1
PFPA	11.5
PFBS	3.5
PFUnA	2.84
PFPeS	2.33
PFDoA	1.97

Outfall 005	12/7/2023
PFOA	213
HFPO-DA	41.3
PFPA	22.2
PFBA	14.9
PFHxA	14.4
PFHpA	6.93
PFHxS	2.92
PFBS	2.42
PFOS	2.28
PFNA	2.01

Outfall 006	7/20/2023
HFPO-DA [II]	1230
PFOA	374
PFPA	69.7
PFHxS	59.5
PFOS	54.9
PFHxA	52.5
PFHpA	42.9
PFNA	38.9
PFBA	36.9
PFDA	17.3
PFUnA	10.7
PFPeS	6.16
PFBS	5.9
PFDoA	5.85
PFTriA	3.98
PFTeA	3.01

Service Layer Credits: World Street Map (ESRI)

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_5-11_Recent_PFAS_Above_PO.mxd

Legend

- Chemours Washington Works
- Process Outfall

Notes:

1. Water from the Ranney Well is used for process water. The Ranney Well granular activated carbon (GAC) treatment system installation was completed between September 2021 and November 2021. Results for Outfall 002 prior to the installation of the Ranney Well GAC treatment system shown are dated 7/15/21. Results for Outfall 002 subsequent to the installation of the Ranney Well GAC treatment system shown are dated 12/7/23.
2. Posted databoxes contain PFAS concentration data in units of nanograms per liter (ng/L) for PFAS detected above the reporting limit for the last sampling event occurring between the dates of 8/21/2018 and 12/12/2023, with the sample date as indicated.
3. See Table 1-1 for a list of PFAS abbreviations used.
4. J = Reported value may not be accurate or precise.

0 500 1,000 2,000

Feet

1 inch = 1,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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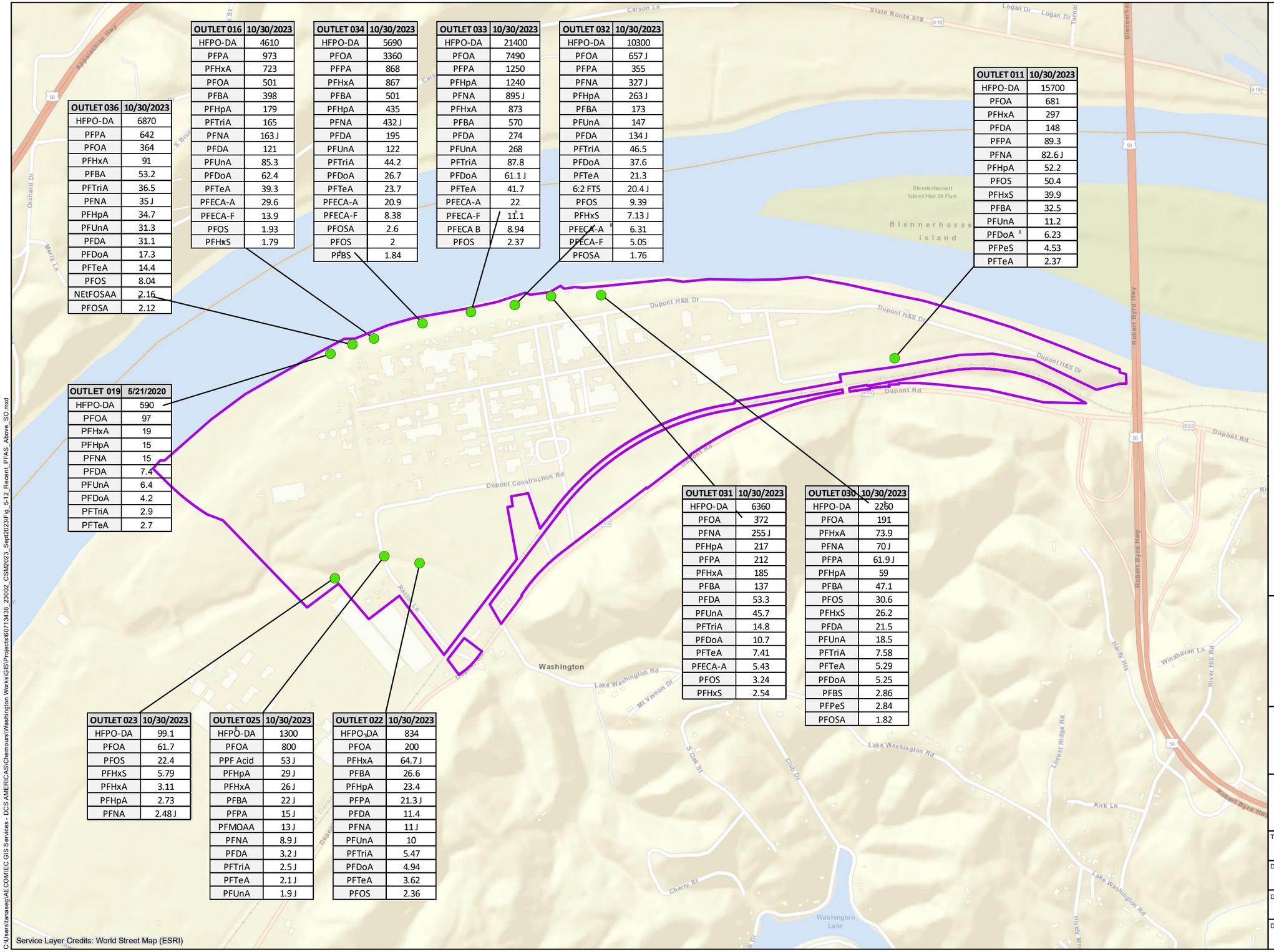
248 Chapman Road
Suite 101
Newark, DE 19702

Recent PFAS Detections Above the Reporting Limits for Process Outfalls

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: K. DAVIS	DATE: 2/12/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 5-11
DATA QUALITY CHECK BY: G. GREGORY	



OUTLET 016	10/30/2023
HFPO-DA	4610
PFPA	973
PFHxA	723
PFOA	501
PFBA	398
PFHpA	179
PFTriA	165
PFNA	163 J
PFDA	121
PFUnA	85.3
PFDoA	62.4
PFTeA	39.3
PFECA-A	29.6
PFECA-F	13.9
PFOS	1.93
PFHxS	1.79

OUTLET 034	10/30/2023
HFPO-DA	5690
PFOA	3360
PFPA	868
PFHxA	867
PFBA	501
PFHpA	435
PFNA	432 J
PFDA	195
PFUnA	122
PFTriA	44.2
PFDoA	26.7
PFTeA	23.7
PFECA-A	20.9
PFECA-F	8.38
PFOSA	2.6
PFOS	2
PFBS	1.84

OUTLET 033	10/30/2023
HFPO-DA	21400
PFOA	7490
PFPA	1250
PFHpA	1240
PFNA	895 J
PFHxA	873
PFBA	570
PFDA	274
PFUnA	268
PFTriA	87.8
PFDoA	61.1 J
PFTeA	41.7
PFECA-A	22
PFECA-F	11.1
PFECA B	8.94
PFOS	2.37

OUTLET 032	10/30/2023
HFPO-DA	10300
PFOA	657 J
PFPA	355
PFNA	327 J
PFHpA	263 J
PFBA	173
PFUnA	147
PFDA	134 J
PFTriA	46.5
PFDoA	37.6
PFTeA	21.3
6:2 FTS	20.4 J
PFOS	9.39
PFHxS	7.13 J
PFECA-A	6.31
PFECA-F	5.05
PFOSA	1.76

OUTLET 036	10/30/2023
HFPO-DA	6870
PFPA	642
PFOA	364
PFHxA	91
PFBA	53.2
PFTriA	36.5
PFNA	35 J
PFHpA	34.7
PFUnA	31.3
PFDA	31.1
PFDoA	17.3
PFTeA	14.4
PFOS	8.04
NEtFOSAA	2.16
PFOSA	2.12

OUTLET 011	10/30/2023
HFPO-DA	15700
PFOA	681
PFHxA	297
PFDA	148
PFPA	89.3
PFNA	82.6 J
PFHpA	52.2
PFOS	50.4
PFHxS	39.9
PFBA	32.5
PFUnA	11.2
PFDoA	6.23
PFPeS	4.53
PFTeA	2.37

OUTLET 019	5/21/2020
HFPO-DA	590
PFOA	97
PFHxA	19
PFHpA	15
PFNA	15
PFDA	7.4
PFUnA	6.4
PFDoA	4.2
PFTriA	2.9
PFTeA	2.7

OUTLET 031	10/30/2023
HFPO-DA	6360
PFOA	372
PFNA	255 J
PFHpA	217
PFPA	212
PFHxA	185
PFBA	137
PFDA	53.3
PFUnA	45.7
PFTriA	14.8
PFDoA	10.7
PFTeA	7.41
PFECA-A	5.43
PFOS	3.24
PFHxS	2.54

OUTLET 030	10/30/2023
HFPO-DA	2260
PFOA	191
PFHxA	73.9
PFNA	70 J
PFPA	61.9 J
PFHpA	59
PFBA	47.1
PFOS	30.6
PFHxS	26.2
PFDA	21.5
PFUnA	18.5
PFTriA	7.58
PFTeA	5.29
PFDoA	5.25
PFBS	2.86
PFPeS	2.84
PFOSA	1.82

OUTLET 023	10/30/2023
HFPO-DA	99.1
PFOA	61.7
PFOS	22.4
PFHxS	5.79
PFHxA	3.11
PFHpA	2.73
PFNA	2.48 J

OUTLET 025	10/30/2023
HFPO-DA	1300
PFOA	800
PPF Acid	53 J
PFHpA	29 J
PFHxA	26 J
PFBA	22 J
PFPA	15 J
PFMOAA	13 J
PFNA	8.9 J
PFDA	3.2 J
PFTriA	2.5 J
PFTeA	2.1 J
PFUnA	1.9 J

OUTLET 022	10/30/2023
HFPO-DA	834
PFOA	200
PFHxA	64.7 J
PFBA	26.6
PFHpA	23.4
PFPA	21.3 J
PFDA	11.4
PFNA	11 J
PFUnA	10
PFTriA	5.47
PFDoA	4.94
PFTeA	3.62
PFOS	2.36

Legend

- Chemours Washington Works
- Storm Water Outlet

Notes:

1. Posted databoxes contain PFAS concentration data in units of nanograms per liter (ng/L) for PFAS detected above the reporting limit for the last sampling event occurring between the dates of 8/21/2018 and 12/12/2023, with the sample date as indicated.
2. See Table 1-1 for a list of PFAS abbreviations used.
3. J = Reported value may not be accurate or precise.

0 500 1,000 2,000

Feet

1 inch = 1,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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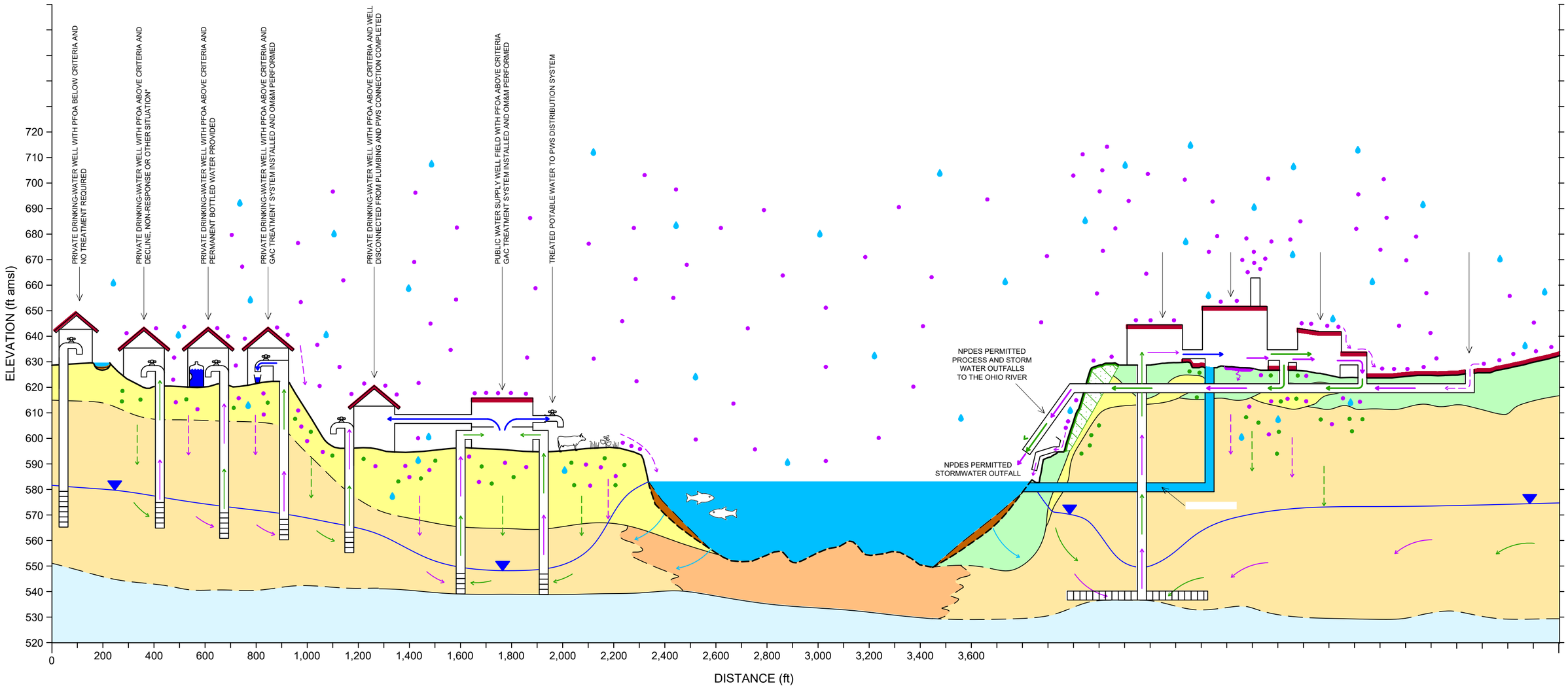
Recent PFAS Detections Above the Reporting Limits for Stormwater Outfalls

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: K. DAVIS	DATE: 2/12/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 5-12
DATA QUALITY CHECK BY: G. GREGORY	

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_5-12_Recent_PFAS_Above_SO.mxd



LEGEND

- SURFACE WATER BODY SEDIMENT
- HOLOCENE SILT AND CLAY
- HOLOCENE SAND
- REWORKED PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- PLEISTOCENE ALLUVIAL SAND AND GRAVEL
- PERMIAN BEDROCK (SHALE / SANDSTONE CONSOLIDATED UNIT)
- HFPO-DA MIGRATION VIA PRECIPITATION
- PFOA MIGRATION VIA PRECIPITATION
- RIVER WATER RECHARGE
- PRECIPITATION AND INFILTRATION INTO SOIL
- GROUNDWATER WITH HFPO-DA
- GROUNDWATER WITH PFOA
- GAC TREATED WATER
- PROCESS / STORMWATER WITH HFPO-DA
- PROCESS / STORMWATER WITH PFOA
- RELEASE OF HFPO-DA TO SOIL / SUBSURFACE SOIL
- GROUNDWATER ELEVATION
- HFPO-DA IN CURRENT AIR EMISSIONS
- PFOA FROM HISTORICAL AIR EMISSIONS
- IMPERMEABLE SURFACE
- GAC TREATED POTABLE WATER
- PERMANENT BOTTLED WATER PROVIDED
- RESIDENCE WITH PRIVATE DRINKING-WATER WELL
- SMALL SURFACE WATER BODY WITH SEDIMENT
- FISH
- BEEF CATTLE
- PRODUCE

* OTHER SITUATION - SEE TABLE 7 OF THE MOST RECENT 2009 CONSENT ORDER AS AMENDED QUARTERLY PROGRESS REPORT.

NOTES:

1. DASHED CONTACTS ARE INTERPRETED.
2. INFRASTRUCTURE IS SCHEMATIC AND NOT TO SCALE.
3. FIGURE DEPICTS PRESENCE OF PFOA AND HFPO-DA, NOT MAGNITUDE OF CONCENTRATIONS. PRESENCE OF OTHER PFAS ARE NOT DEPICTED HERE.
4. ADJACENT TO THE SITE, PFAS FROM NPDES PERMITTED DISCHARGES DOES NOT FLOW THROUGH THE RIVER WATER RECHARGE TO WELL FIELDS IN OHIO. DOWNSTREAM OF THE SITE, PFAS FROM NPDES DISCHARGES MAY FLOW THROUGH RIVER WATER RECHARGE TO WELL FIELDS IN WEST VIRGINIA OR OHIO DUE TO RIVER WATER MIXING AND FLOW DYNAMICS.

ABBREVIATIONS:

GAC = GRANULAR ACTIVATED CARBON
HFPO-DA = HEXAFLUOROPROPYLENE OXIDE DIMER ACID
NPDES = NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
PFAS = PER- AND POLYFLUOROALKYL SUBSTANCES
PFOA = PERFLUOROOCTANOIC ACID
PWS = PUBLIC WATER SUPPLY
ft amsl = FEET ABOVE MEAN SEA LEVEL

23002	AECOM		60713438
K. DAVIS			12/05/2024
G. TANASE			
G. GREGORY			

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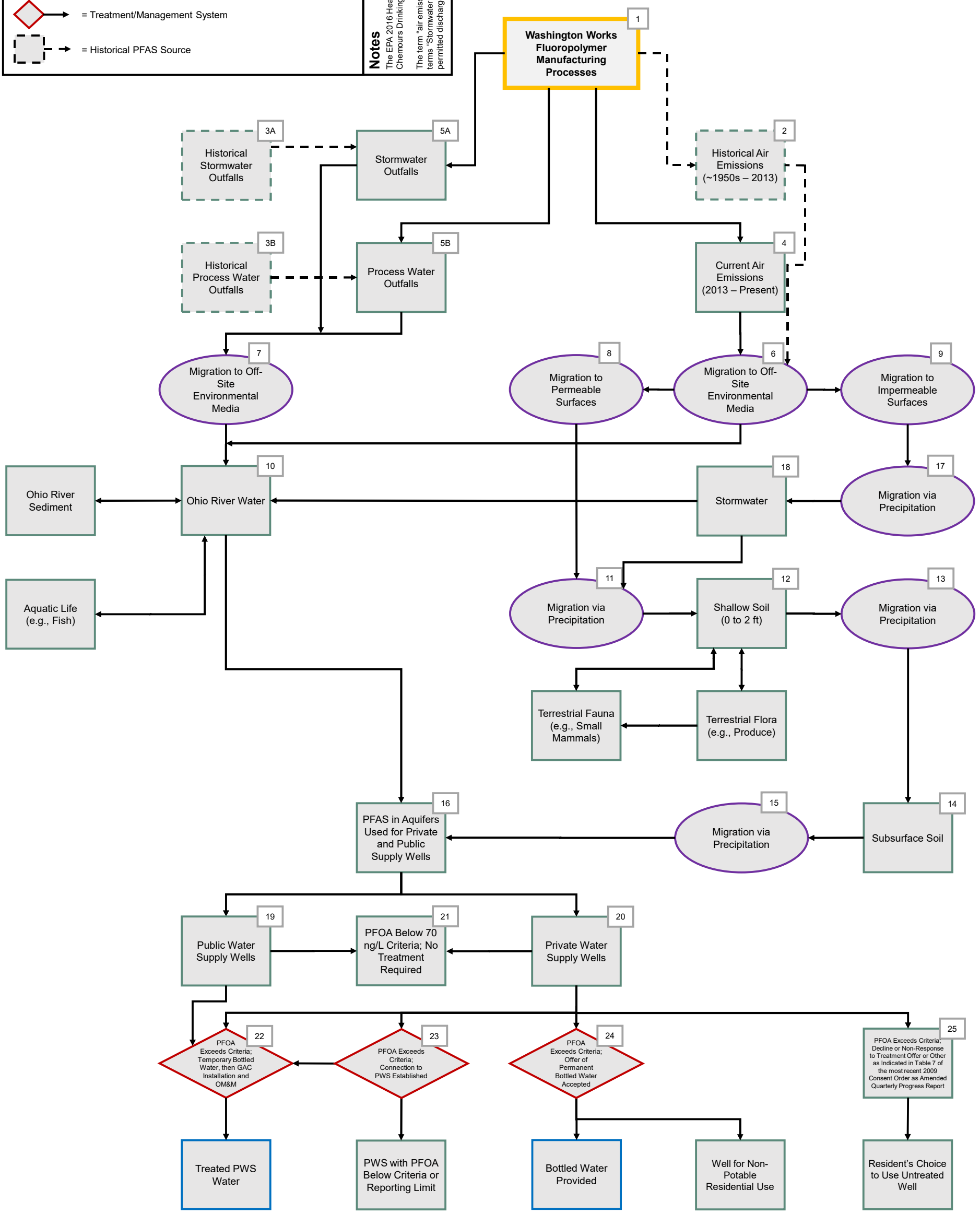
Legend

- ## = Numbers shown on the upper right of each flowchart item, referenced in sections 5.0 and 6.0 of the report.
- = Manufacturing Processes
- = PFAS-Bearing or Potentially Bearing Environmental Media
- = Treated Media
- = Migration Pathway
- = Treatment/Management System
- = Historical PFAS Source

Notes

The EPA 2016 Health Advisory of 0.07 µg/L (70 ng/L) is the criteria used for Chemours Drinking Water Surveying and Sampling Program.

The term "air emissions" refers to Title V permitted air emissions and the terms "Stormwater Outfalls" and "Process Water Outfalls" refer to NPDES permitted discharges to the Ohio River.



AECOM 248 Chapman Road Suite 101 Newark, DE 19702	TASK NUMBER: 23001OFF	DESIGNED BY: K. DAVIS	2023 Updated Conceptual Site Model Report Chemours Washington Works Washington, West Virginia	Off-Site PFAS Conceptual Site Model	PROJECT NUMBER: 60713438	FIGURE NUMBER: 6-2
	DRAWN BY: B. SIMEONE	DATA QUALITY CHECK BY: G. GREGORY			DATE: 2/2/2024	

Morgan County, OH
Washington County, OH
Athens County, OH
Meigs County, OH
Jackson County, WV
Wood County, WV
Wirt County, WV
Mason County, WV
Roane County, WV

Phase III Area A
Phase III Area B
Phase III Area D
Phase III Area E

Site Boundary
Local Landfill
Dry Run Landfill
Inset Map Extent

OHIO
WEST VIRGINIA

INSET MAP

Legend

- Residential GAC System - Ohio
- Residential GAC System - West Virginia
- Phase III Area
- Site Boundary
- County Boundary
- State Boundary

Note:
Numbers posted at each location are Regulatory Location Identifiers.

Map Extent: Ohio, West Virginia, Kentucky

0 6,000 12,000 24,000
Feet
1 inch = 12,000 feet
MAP FORMATTED FOR "D" (22" X 34") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

World Street Map Information
Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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Newark, DE 19702

Private GAC Systems Location Map - Ohio and West Virginia

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: K. DAVIS	DATE: 2/13/2024
DRAWN BY: C.DUFFY/G.TANASE	FIGURE NUMBER: 6-3
DATA QUALITY CHECK BY: G. GREGORY	

\\na.aecomnet.com\ifs\AMERNewark-IJSNVR1\DCS\Projects\Dupont\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-3_Private_GAC_Loc_Map_OH_and_WV.mxd

Morgan County, OH

Athens County, OH

Washington County, OH

Meigs County, OH

Wood County, WV

Wirt County, WV

Jackson County, WV

Mason County, WV

Roane County, WV

Phase III Area A

Phase III Area B

Phase III Area D

Phase III Area E

Inset Map Extent

Site Boundary

Local Landfill

Dry Run Landfill

OHIO

WEST VIRGINIA

INSET MAP

Legend

- Bottled Water - Ohio
- Bottled Water - West Virginia
- Public Water Supply - Ohio
- Public Water Supply - West Virginia
- Other - Ohio
- Other - West Virginia
- Phase III Area
- Site Boundary
- County Boundary
- State Boundary

Note:
Numbers posted at each location are Regulatory Location Identifiers.

Map Extent

Ohio

West Virginia

Kentucky

0 6,000 12,000 24,000

Feet

1 inch = 12,000 feet

MAP FORMATTED FOR "D" (22" X 34") SIZE SHEET.
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World Street Map Information
Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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Private Water Sources With PFOA Greater Than 0.07 µg/L (70 ng/L) and Receiving Alternative Treatment or Not Receiving Treatment - Ohio and West Virginia

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: K. DAVIS	DATE: 2/13/2024
DRAWN BY: C.DUFFY/G.TANASE	FIGURE NUMBER: 6-4
DATA QUALITY CHECK BY: G. GREGORY	

\\na.aecomnet.com\ltk\AMER\Newark-U-SNWR1\DCS\Projects\Dupont\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-4_Private_Water_Sources_With_PFOA_Greater_Than_0.07.mxd

Morgan County, OH

Washington County, OH

Athens County, OH

Meigs County, OH

Wood County, WV

Wirt County, WV

Jackson County, WV

Mason County, WV

Roane County, WV

Phase III Area A

Phase III Area B

Phase III Area D

Phase III Area E

Site Boundary

Local Landfill

Dry Run Landfill

Inset Map Extent

OHIO

WEST VIRGINIA

INSET MAP

Legend

- Non-Qualifying Residential Source - Ohio
- Non-Qualifying Residential Source - West Virginia
- Residential Source with PFOA 0.05-0.07 ug/L, Additional Monitoring Ongoing – Ohio
- Phase III Area
- Site Boundary
- County Boundary
- State Boundary

Note:
Numbers posted at each location are Regulatory Location Identifiers.

Map Extent

Ohio

West Virginia

Kentucky

0 6,000 12,000 24,000

Feet

1 inch = 12,000 feet

MAP FORMATTED FOR "D" (22" X 34") SIZE SHEET.
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World Street Map Information
Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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Private Water Sources With PFOA Less Than or Equal to 0.07 µg/L (70 ng/L) - Ohio and West Virginia

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: K. DAVIS	DATE: 2/13/2024
DRAWN BY: C.DUFFY/G.TANASE	FIGURE NUMBER: 6-5
DATA QUALITY CHECK BY: G. GREGORY	

\\na.aecomnet.com\ifs\AMER\Newark-IJ-SNWR1\DCS\Projects\Dupont\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sep2023\Fig_6-5_Private_Water_Sources_With_PFOA_Less_Than_0.07.mxd

Legend

Chemours Washington Works

Chemours Private Drinking Water Sampling Locations

- Most recent sample analyzed for PFOA only
- Most recent sample analyzed for 18 PFAS via EPA 537.1
- Most recent sample analyzed for 40 PFAS via EPA Method 1633 DRAFT

845 Regulatory Location Identifier

Abbreviations:
EPA = Environmental Protection Agency
PFAS = Per- and Polyfluorinated Substances
PFOA = Perfluorooctanoic Acid

0 7,500 15,000 30,000
Feet
1 inch = 15,000 feet

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CHEMOURS PRIVATE DRINKING WATER SAMPLING LOCATION MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: B. SIMEONE	DATE: 2/26/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-6
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMER\CAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-6_DotMap_Chem_PDW_SmplLocMap.mxd

Legend

Chemours Washington Works

PFOA (ng/L)

- <RL
- >RL to ≤50
- >50 to ≤100
- >100 to ≤250
- >250 to ≤500
- >500 to ≤2,000
- >2,000 to ≤4,400

Abbreviations:
PFOA = Perfluorooctanoic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

N
W E
S

0 12,500 25,000 50,000
Feet
1 inch = 25,000 feet

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CHEMOURS PRIVATE DRINKING WATER - PFOA DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY:	DATE:
B. SIMEONE	2/13/2024
DRAWN BY:	FIGURE NUMBER:
G. TANASE	6-7
DATA QUALITY CHECK BY:	
G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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Legend

Chemours Washington Works

PFHpA (ng/L)

- <RL
- >RL to ≤10
- >10 to ≤25
- >25 to ≤50
- >50 to ≤75
- >75 to ≤120

Abbreviations:
PFHpA = Perfluoroheptanoic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

0 12,500 25,000 50,000

Feet

1 inch = 25,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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CHEMOURS PRIVATE DRINKING WATER - PFHpA DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-8
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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Legend

Chemours Washington Works

PFHxA (ng/L)

- <RL
- >RL to ≤10
- >10 to ≤25
- >25 to ≤50
- >50 to ≤75
- >75 to ≤190

Abbreviations:
PFHxA = Perfluorohexanoic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

N
W E
S

0 12,500 25,000 50,000
Feet
1 inch = 25,000 feet

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CHEMOURS PRIVATE DRINKING WATER - PFHxA DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY:	DATE:
B. SIMEONE	2/13/2024
DRAWN BY:	FIGURE NUMBER:
G. TANASE	6-9
DATA QUALITY CHECK BY:	
G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-9_DotMap_Chem_PDW_PFHxA.mxd

Legend

Chemours Washington Works

PFBA (ng/L)

- Not analyzed
- <RL
- >RL to ≤10
- >10 to ≤25
- >25 to ≤50
- >50 to ≤75
- >75 to ≤93

Abbreviations:
PFBA = Perfluorobutanoic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

0 12,500 25,000 50,000
Feet
1 inch = 25,000 feet

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CHEMOURS PRIVATE DRINKING WATER - PFBA DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-10
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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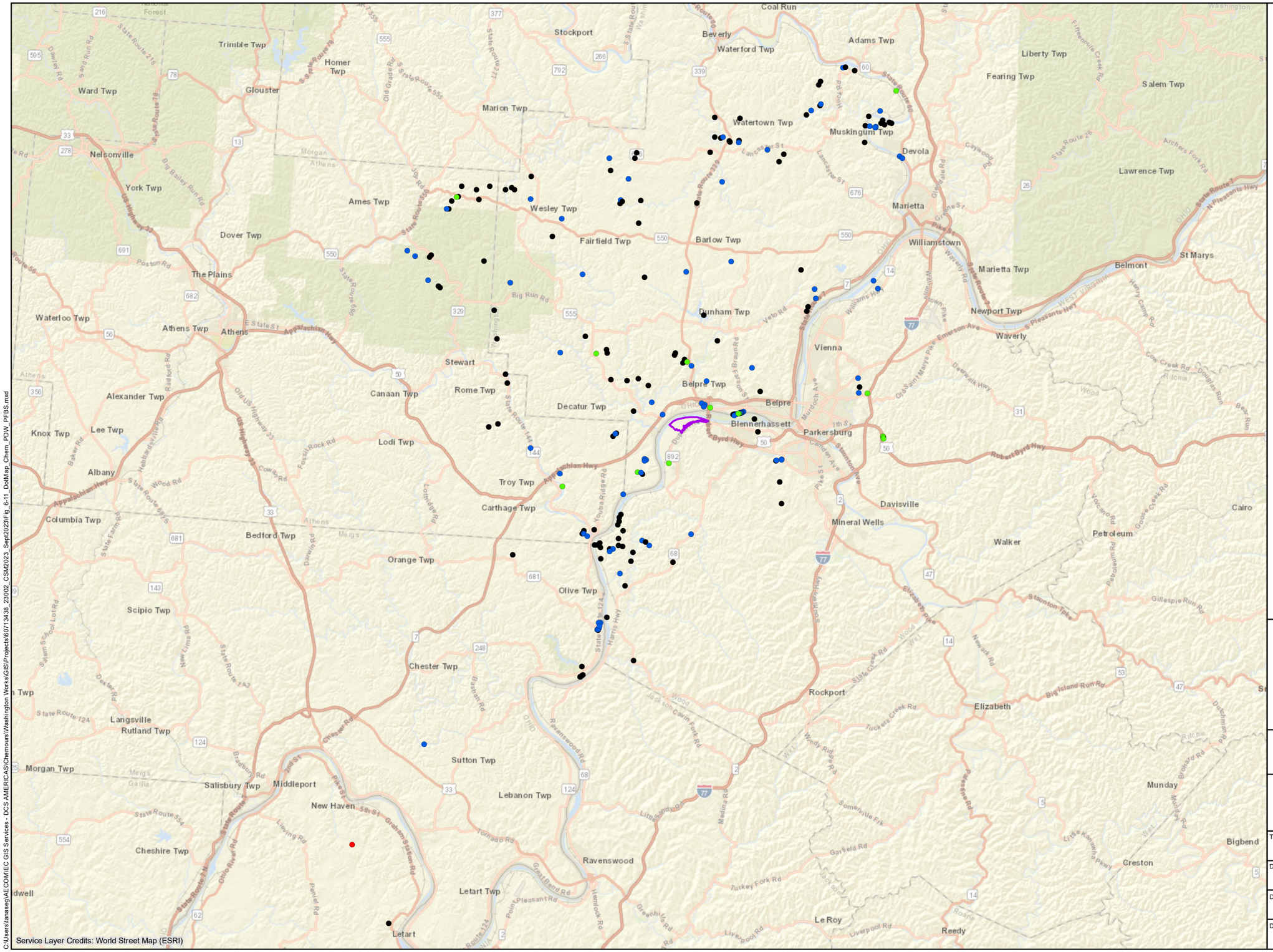

Legend

- Chemours Washington Works

PFBS (ng/L)

- <RL
- >RL to ≤10
- >10 to ≤50
- >50 to ≤100
- >100 to ≤150
- >150 to ≤160

Abbreviations:
PFBS = Perfluorobutanesulfonic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

0 12,500 25,000 50,000
Feet
1 inch = 25,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
TEXT SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

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CHEMOURS PRIVATE DRINKING WATER - PFBS DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-11
DATA QUALITY CHECK BY: G. GREGORY	

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Legend

Chemours Washington Works

PFPA (ng/L)

- Not analyzed
- <RL
- >RL to ≤10
- >10 to ≤20
- >20 to ≤30
- >30 to ≤40
- >40 to ≤49

Abbreviations:
PFPA = Perfluoropentanoic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

0 12,500 25,000 50,000
Feet
1 inch = 25,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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CHEMOURS PRIVATE DRINKING WATER - PFPA DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-12
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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Legend

Chemours Washington Works

PFHxS (ng/L)

- <RL
- >RL to ≤10
- >10 to ≤20
- >20 to ≤30
- >40 to ≤1,000

Abbreviations:
PFHxS = Perfluorohexane Sulfonic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

0 12,500 25,000 50,000
Feet
1 inch = 25,000 feet

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CHEMOURS PRIVATE DRINKING WATER - PFHxS DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-13
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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Legend

Chemours Washington Works

PFOS (ng/L)

- <RL
- >RL to ≤10
- >10 to ≤20
- >20 to ≤30
- >30 to ≤40
- >40 to ≤2,700

Abbreviations:
PFOS = Perfluorooctanesulfonic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

0 12,500 25,000 50,000
Feet
1 inch = 25,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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CHEMOURS PRIVATE DRINKING WATER - PFOS DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-14
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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Legend

Chemours Washington Works

HFPO-DA (ng/L)

- <RL
- >RL to ≤10
- >10 to ≤50
- >50 to ≤100
- >100 to ≤150
- >150 to ≤210

Abbreviations:

HFPO-DA = 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

0 12,500 25,000 50,000

Feet

1 inch = 25,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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CHEMOURS PRIVATE DRINKING WATER - HFPO-DA DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-15
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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Legend

- Chemours Washington Works

PFOSA (ng/L)

- Not analyzed
- <RL
- >RL to ≤4.4

Abbreviations:
PFOSA = Perfluorooctane Sulfonamide
RL = Reporting Limit
ng/L = Nanograms per Liter

N

0 12,500 25,000 50,000

Feet

1 inch = 25,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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CHEMOURS PRIVATE DRINKING WATER - PFOSA DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-16
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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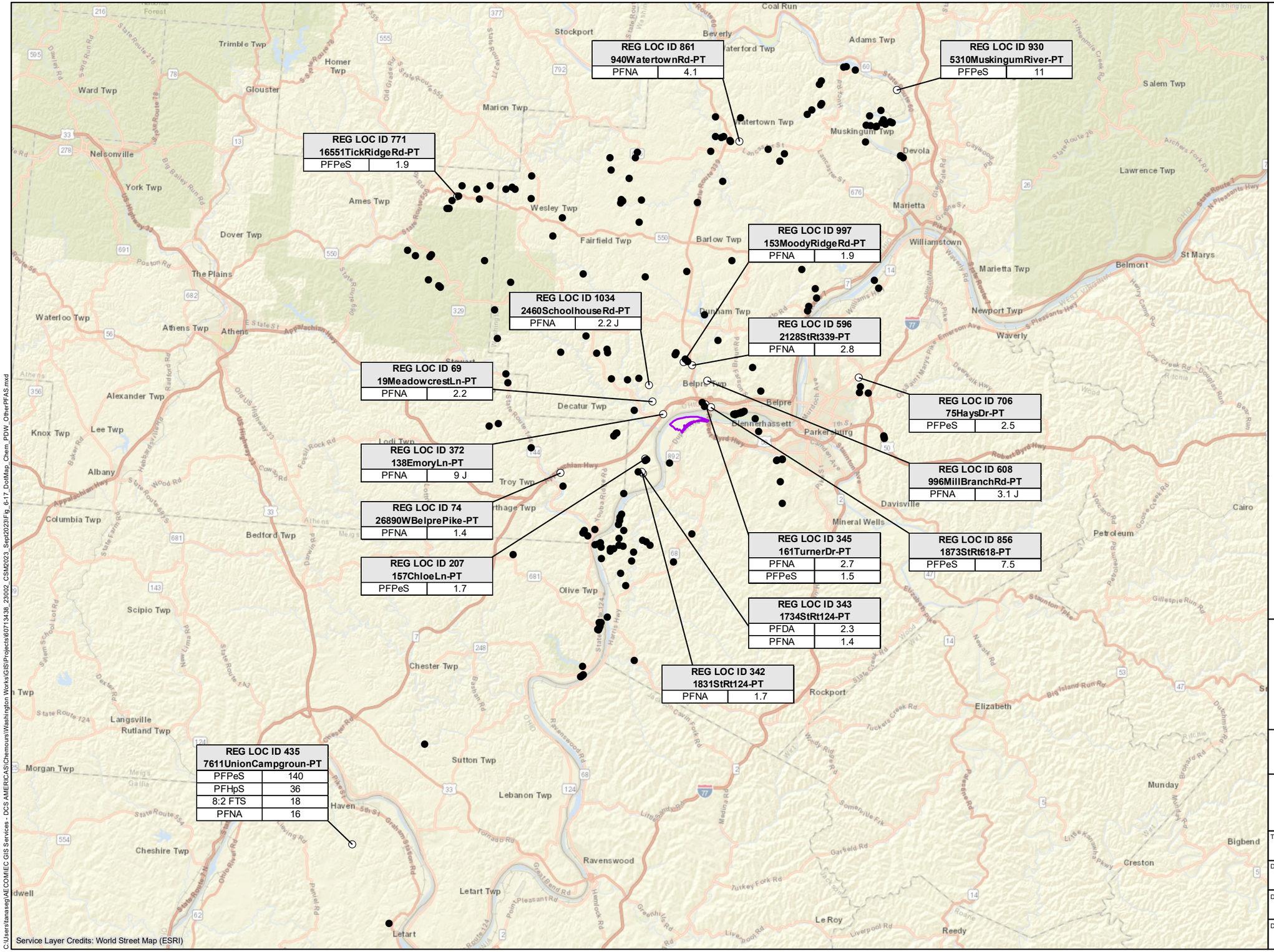

Legend

Chemours Washington Works

Other PFAS (ng/L)

- ○ Detected
- ● Not Detected Above the Reporting Limit

Notes:

1. See Table 1-1 for a list of PFAS full names for the abbreviations used in this figure.
2. J = Reported value may not be accurate or precise.

Abbreviations:

REG LOC ID = Regulatory Location Identifier
RL = Reporting Limit
ng/L = Nanograms per Liter

N
W E
S

0 12,500 25,000 50,000

Feet

1 inch = 25,000 feet

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CHEMOURS PRIVATE DRINKING WATER - OTHER PFAS DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: B. SIMEONE	DATE: 2/14/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-17
DATA QUALITY CHECK BY: G. GREGORY	

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LHWAPSD-PT	11/20/2023
PFOA	5800
HFPO-DA	460
PFHpA	160
PFHxA	120

VPSD3-PT	11/13/2023
PFOA	120
PFBS	13 J
PFHpA	11 J
PFHxS	6.2
PFHxA	5.7 J

VPSD1-PT	11/13/2023
PFOA	140
PFHxS	19
PFBS	13
PFHpA	12
PFHxA	8.1
PFOS	1.9

PT (ONSITE GAC)	11/13/2023
PFOA	160
HFPO-DA	63
PFOS	3.4
PFBS	2.5
PFHpA	2.4
PFHxA	2.3

VPSD2-PT	11/13/2023
PFOA	89
PFBS	8.5
PFHpA	4.6
PFHxS	3.7
PFHxA	3.6

LPSD-PT	11/13/2023
PFOA	980
HFPO-DA	35 J
PFHpA	27 J
PFHxA	20 J
PFBS	3.6 J
PFHxS	3.6

PPSDPT	2/24/2023
PFOA	72
PFOS	4.1
PFHxA	2.5
PFHxS	2.5
PFBS	2.2

SPBHITWS-PT	11/16/2023
PFOA	760
PFHpA	21
PFHxA	4.5

BELPSD-PT	11/13/2023
PFOA	380
PFHxS	43
PFBS	26
PFHxA	25
PFHpA	20
HFPO-DA	2.6

VOPPT	11/14/2023
PFBS	9.7
PFOA	4.4
PFHxS	2.6

TPPSD-PT	11/14/2023
PFOA	9.8
PFBS	2.3

LETART-PT	11/14/2023
PFOA	9.2

CRABCREEK-PT	11/14/2023
PFBS	2.2

Legend

- Chemours Washington Works
- Public Drinking Water Supply

Notes:

1. Data shown for PPSD is from the last sample collected on 2/24/23.
2. Posted databoxes contain PFAS concentration data in units of nanograms per liter (ng/L) for PFAS detected above the reporting limit in prior to treatment (PT) samples for the last sampling event occurring between the dates of 8/21/2018 and 12/12/2023, with the sample date as indicated.
3. Parkersburg is the only public water supply shown with no operating GAC treatment system at the time the samples were collected.
4. See Table 1-1 for a list of PFAS full names for the abbreviations used in this figure.
5. J = Reported value may not be accurate or precise.

0 12,500 25,000 50,000

Feet

1 inch = 25,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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List of Public Water Supplies		
Full Name	**GAC System Name**	**PT Sample ID**
Town of Vienna Public Water Supply	Vienna 1	VPSD1-PT
	Vienna 3	VPSD3-PT
	Vienna 2	VPSD2-PT
City of Parkersburg Public Service District	N/A	PPSDPT
City of Belpre Public Water System	Belpre	BELPSD-PT
Blennerhassett Island State Park Transient Water System	Blennerhassett Island	SPBHITWS-PT
Washington Works Facility On-site Potable Water Supply	WW Site GAC	PT
Little Hocking Water Association Public Service District	LHWA	LHWAPSD-PT
Lubeck Public Service District	Lubeck	LPSD-PT
Tuppers Plains Chester Water District	Tuppers Plains	TPPSD-PT
Letart Public Service District	Letart	LETART-PT
Village of Pomeroy Public Water Supply	Village of Pomeroy	VOPPT
Crab Creek Public Service District	Crab Creek	CRABCREEK-PT

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Recent PFAS Detections Above the Reporting Limits for Public Drinking Water Supplies

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: K. DAVIS	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-18
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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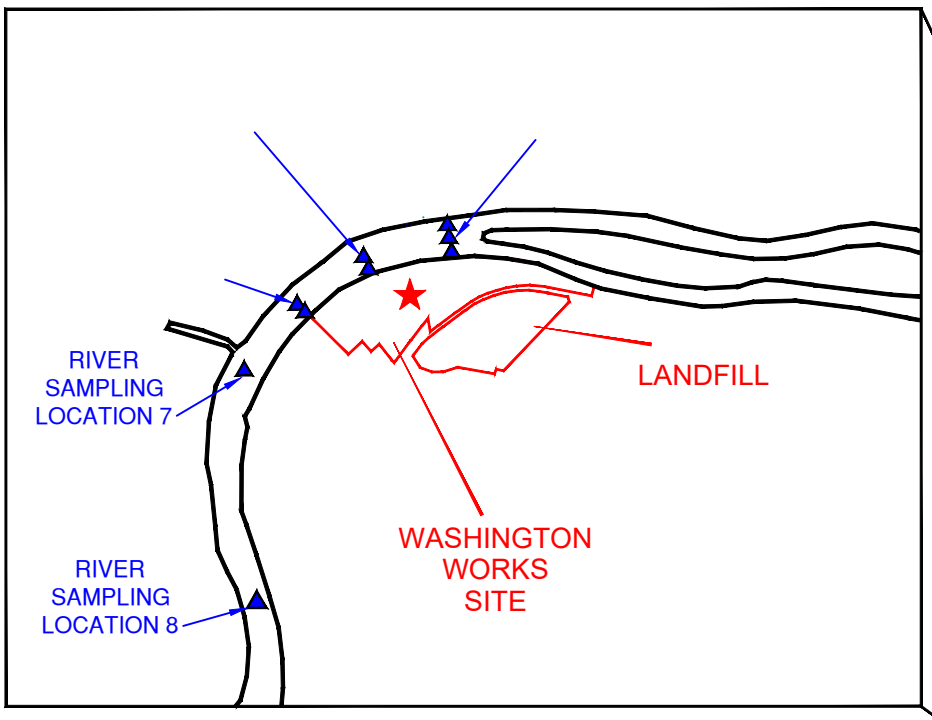
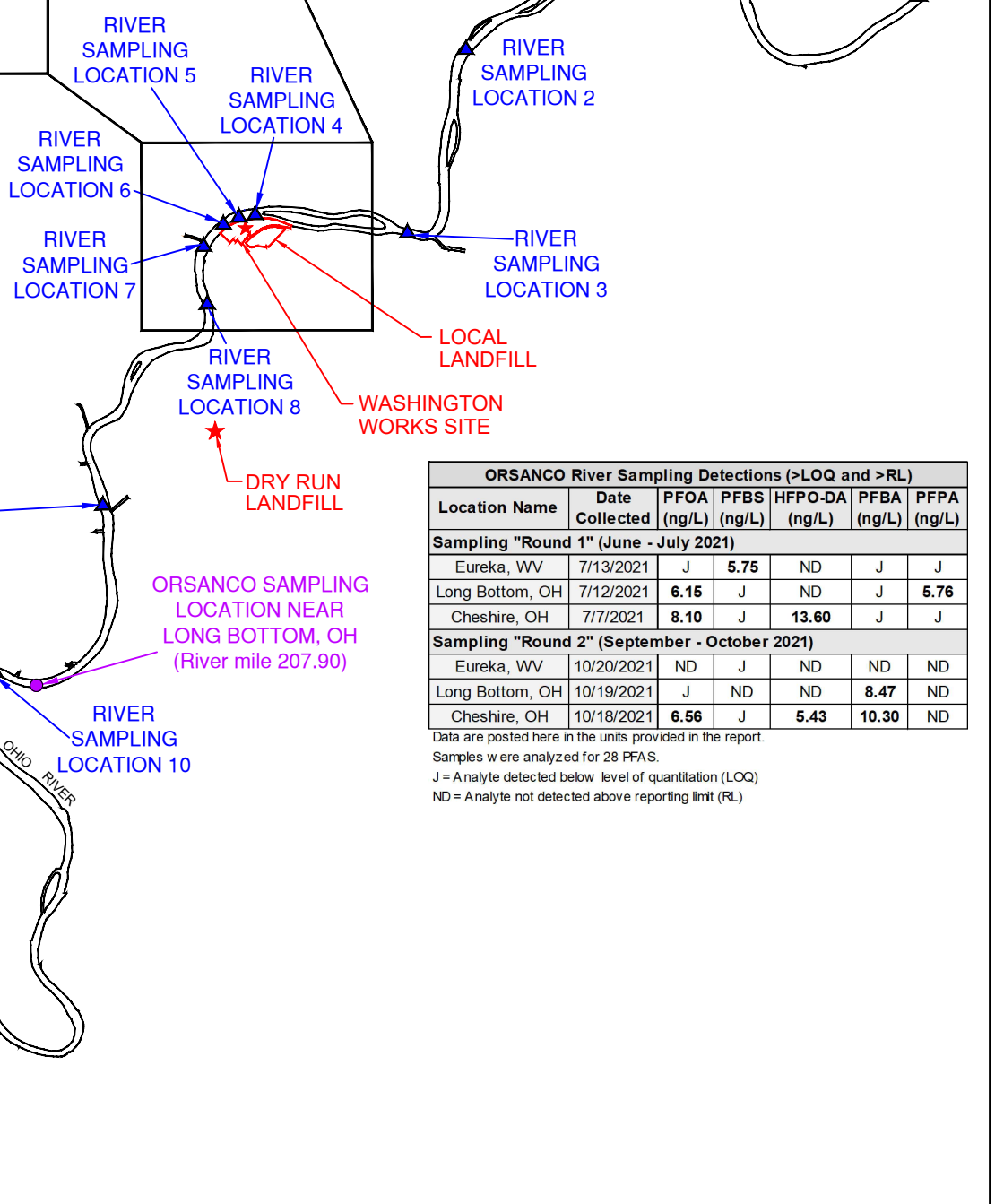
Location	Surface Sample 2002 PFOA (ug/L)	Surface Sample 2011 PFOA (ug/L)	Mid-column Sample 2002 PFOA (ug/L)	Mid-column Sample 2011 PFOA (ug/L)
1	ND (<0.01)	NQ (<0.0092)	ND (<0.01)	NQ (<0.0092)
2	ND (<0.01)	NQ (<0.0092)	ND (<0.01)	NQ (<0.0092)
3	ND (<0.01)	0.0093	ND (<0.01)	NQ (<0.0092)





Location	Surface Sample 2002 PFOA (ug/L)	Surface Sample 2011 PFOA (ug/L)	Mid-column Sample 2002 PFOA (ug/L)	Mid-column Sample 2011 PFOA (ug/L)
4A	ND (<0.01)	0.011	ND (<0.01)	0.01
4B	ND (<0.01)	0.01	ND (<0.01)	0.011
4C	ND (<0.01)	0.012	ND (<0.01)	0.016
5A	NQ (<0.05)	0.2	ND (<0.01)	0.079
5B	ND (<0.01)	0.0096	ND (<0.01)	0.01
6A	ND (<0.01)	0.081	ND (<0.01)	0.011
6B	ND (<0.01)	NQ (<0.0092)	ND (<0.01)	NQ (<0.0092)
7	0.104	0.0098	0.0949	NQ (<0.0092)
8	1.09	0.01	0.999	0.0095

ORSANCO River Sampling Detections (>LOQ and >RL)

Location Name	Date Collected	PFOA (ng/L)	PFBS (ng/L)	HFPO-DA (ng/L)	PFBA (ng/L)	PFPA (ng/L)
Sampling "Round 1" (June - July 2021)						
Eureka, WV	7/13/2021	J	**5.75**	ND	J	J
Long Bottom, OH	7/12/2021	**6.15**	J	ND	J	**5.76**
Cheshire, OH	7/7/2021	**8.10**	J	**13.60**	J	J
Sampling "Round 2" (September - October 2021)						
Eureka, WV	10/20/2021	ND	J	ND	ND	ND
Long Bottom, OH	10/19/2021	J	ND	ND	**8.47**	ND
Cheshire, OH	10/18/2021	**6.56**	J	**5.43**	**10.30**	ND

Data are posted here in the units provided in the report.
Samples were analyzed for 28 PFAS.
J = Analyte detected below level of quantitation (LOQ)
ND = Analyte not detected above reporting limit (RL)

Location	Surface Sample 2002 PFOA (ug/L)	Surface Sample 2011 PFOA (ug/L)	Mid-column Sample 2002 PFOA (ug/L)	Mid-column Sample 2011 PFOA (ug/L)
9	0.298	0.03	0.292	0.025
10	0.239	0.024	0.236	0.033
11	0.097	0.045	0.105	0.041
12	0.123	0.051	0.0933	0.051
13	not sampled	0.022	not sampled	0.024
14	not sampled	0.029	not sampled	0.026
15	not sampled	0.029 J	not sampled	0.024

LEGEND:

- OHIO RIVER WATER SAMPLING LOCATIONS
- ORSANCO SAMPLING LOCATIONS

ABBREVIATIONS:

ng/L = nanograms per liter

µg/L = micrograms per liter

ORSANCO = Ohio River Valley Water Sanitation Commission

NOTE:

See Table 1-1 for a list of PFAS full names for the abbreviations used in this figure.



SCALE
4800m 0 4800m

SCALE
2 Mile 0 2 Mile

TASK NUMBER:	23002
DESIGNED BY:	K. DAVIS
DRAWN BY:	G. TANASE
DATA QUALITY CHKD:	G. GREGORY

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2002 and 2011 Ohio River Sampling Locations and PFOA Results and ORSANCO 2021 Ohio River Sampling Locations and PFAS Results

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

PROJECT NO.: 60713438
DATE: 2/28/2024
FIGURE NO.: 6-19

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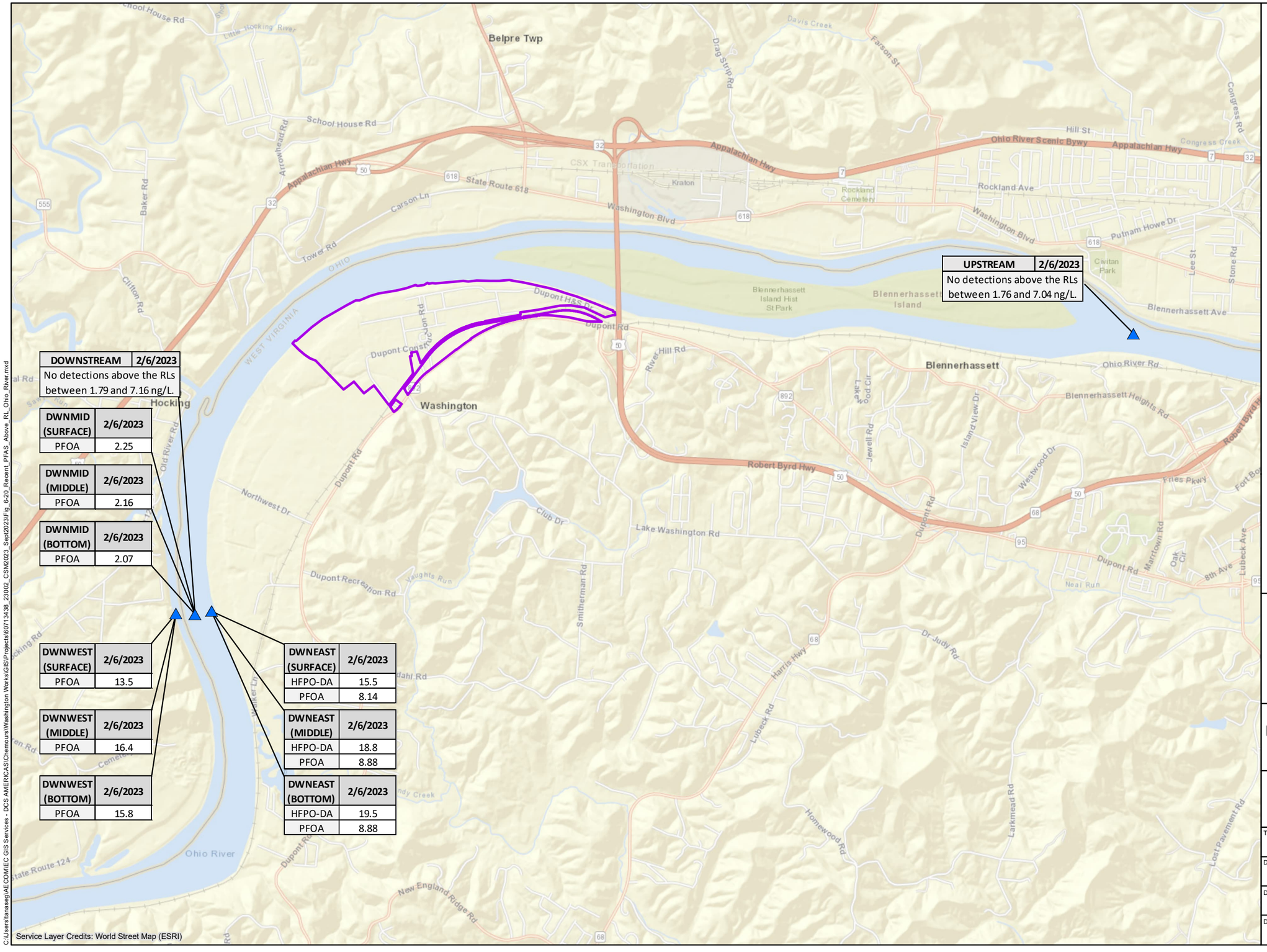

DOWNSTREAM	2/6/2023
No detections above the RLs between 1.79 and 7.16 ng/L.	

UPSTREAM	2/6/2023
No detections above the RLs between 1.76 and 7.04 ng/L.	

DWNMID (SURFACE)	2/6/2023
PFOA	2.25

DWNMID (MIDDLE)	2/6/2023
PFOA	2.16

DWNMID (BOTTOM)	2/6/2023
PFOA	2.07

DWNWEST (SURFACE)	2/6/2023
PFOA	13.5

DWNWEST (MIDDLE)	2/6/2023
PFOA	16.4

DWNWEST (BOTTOM)	2/6/2023
PFOA	15.8

DWNEAST (SURFACE)	2/6/2023
HFPO-DA	15.5
PFOA	8.14

DWNEAST (MIDDLE)	2/6/2023
HFPO-DA	18.8
PFOA	8.88

DWNEAST (BOTTOM)	2/6/2023
HFPO-DA	19.5
PFOA	8.88

Legend

- Chemours Washington Works
- Ohio River Sampling Location

Notes:

1. Posted databoxes contain PFAS concentration data in units of nanograms per liter (ng/L) for PFAS detected above the reporting limit for the last sampling event occurring between the dates of 8/21/2018 and 12/12/2023, with the sample date as indicated.
2. See Table 1-1 for a list of PFAS full names for the abbreviations used in this figure.
3. Upstream and Downstream samples analyzed for 20 PFAS. Depth samples (surface, middle, and bottom) analyzed for PFOA and HFPO-DA.

N

0 1,500 3,000 6,000

Feet

1 inch = 3,000 feet

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Recent PFAS Detections Above the Reporting Limits for Ohio River

2023 Updated Conceptual
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Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: K. DAVIS	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-20
DATA QUALITY CHECK BY: G. GREGORY	

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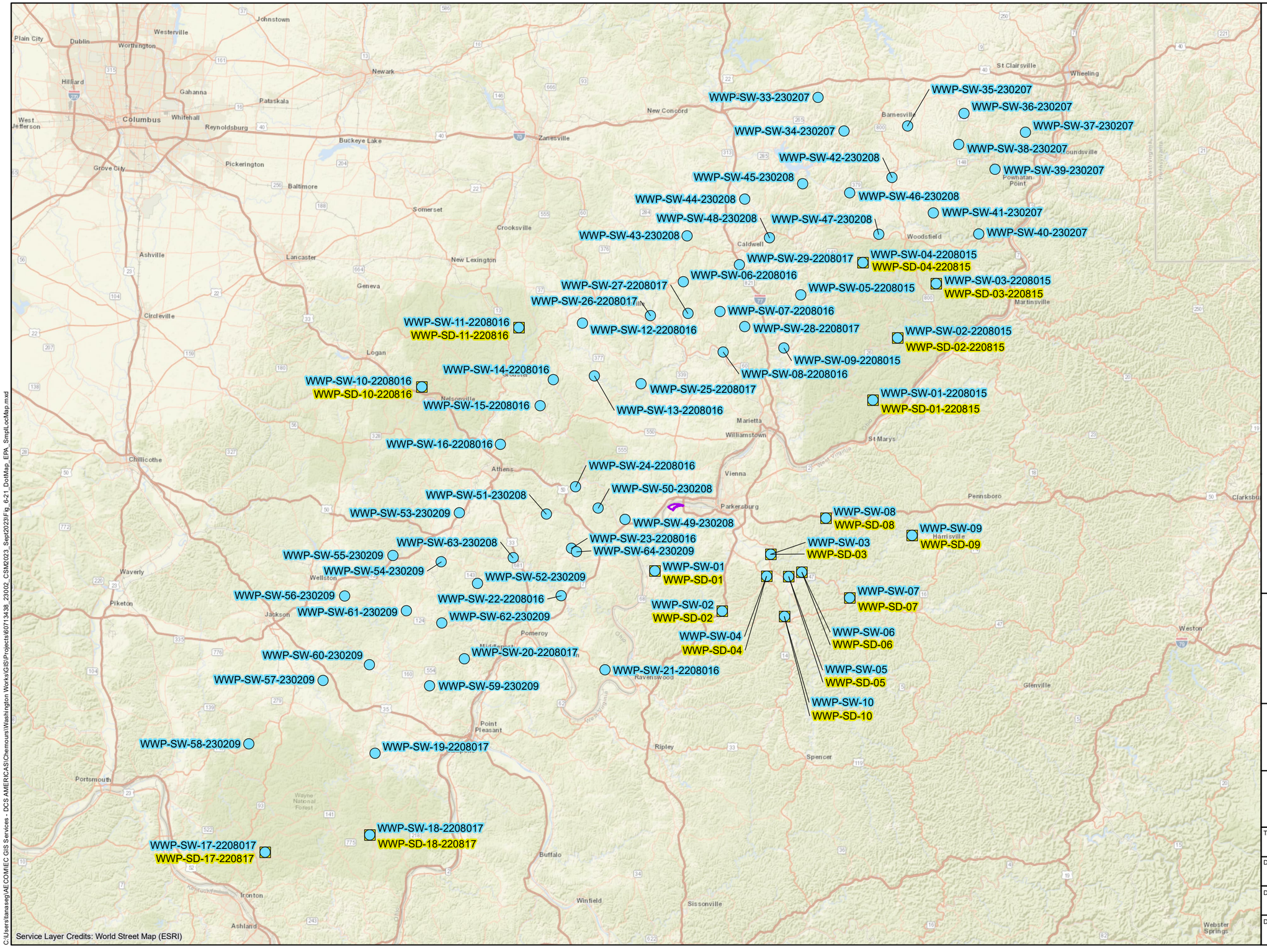

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Legend

- Chemours Washington Works

EPA Regional Sampling Locations

- Surface Water
- Sediment

Abbreviation:
EPA = Environmental Protection Agency

N

0 6 12 24

Miles

1 inch = 12 miles

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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EPA OFF-SITE SURFACE WATER AND SEDIMENT SAMPLING LOCATION MAP

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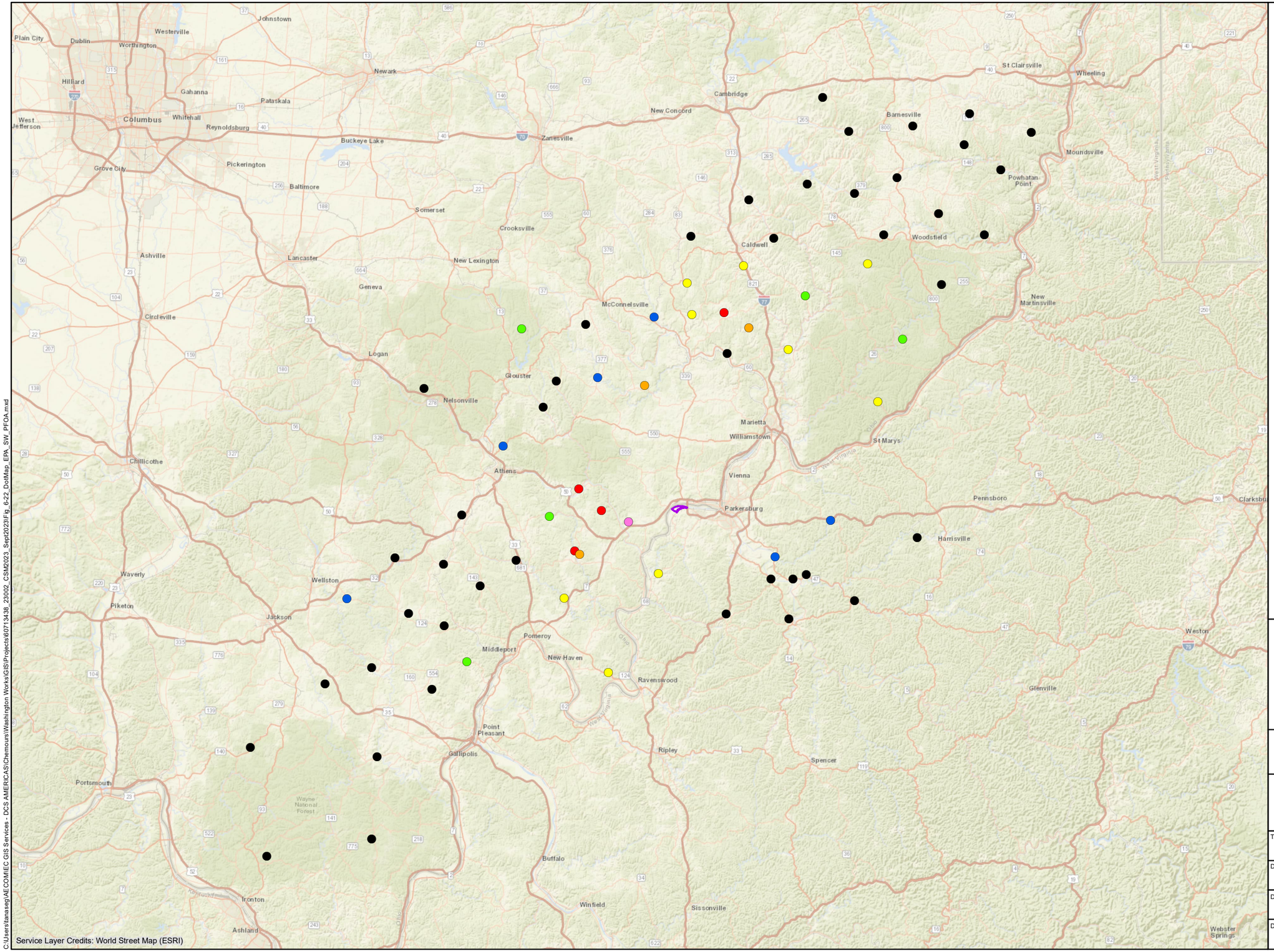
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY:	DATE:
B. SIMEONE	2/13/2024
DRAWN BY:	FIGURE NUMBER:
G. TANASE	6-21
DATA QUALITY CHECK BY:	
G. GREGORY	



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Legend

Chemours Washington Works

PFOA (ng/L)

- <RL
- >RL to ≤15
- >15 to ≤20
- >20 to ≤30
- >30 to ≤40
- >40 to <447
- 447

Abbreviations:
EPA = Environmental Protection Agency
PFOA = Perfluorooctanoic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

N
W E
S

0 6 12 24
Miles
1 inch = 12 miles

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EPA OFF-SITE SURFACE WATER - PFOA DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-22
DATA QUALITY CHECK BY: G. GREGORY	

Legend

Chemours Washington Works

PFOS (ng/L)

- <RL
- >RL to ≤10
- >10 to ≤20
- 20> to ≤30
- >30 to ≤40
- >40 to ≤48.9

Abbreviations:
EPA = Environmental Protection Agency
PFOS = Perfluorooctanesulfonic Acid
RL = Reporting Limit
ng/L = Nanograms per Liter

N
W E
S

0 6 12 24

Miles

1 inch = 12 miles

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EPA OFF-SITE SURFACE WATER - PFOS DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: B. SIMEONE	DATE: 2/13/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-23
DATA QUALITY CHECK BY: G. GREGORY	

Service Layer Credits: World Street Map (ESRI)

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WWP-SW-33-230207	
PFTriA	17.4

WWP-SW-35-230207	
PFTeA	10.5

WWP-SW-47-230208	
PFTeA	57
HQ-115	15.6
PFTriA	13.2

WWP-SW-08-2208016	
PFBS	15.2

WWP-SW-02-2208015	
HFPO-DA	10.5

WWP-SW-50-230208	
HQ-115	12.7

WWP-SW-56-230209	
PFPA	97.9
PFHxA	38.8
PFHpA	10.9

WWP-SW-49-230208	
PPF Acid	52.6
HFPO-DA	19.4
PFHpA	9.89

Service Layer Credits: World Street Map (ESRI)

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-24_DotMap_EPA_SW_OtherPFAS.mxd

Legend

Chemours Washington Works

PFAS Other than PFOA and PFOS (ng/L)

- Detected
- Not Detected Above the Reporting Limit

Notes:

1. See Table 1-1 for a list of PFAS full names for the abbreviations used in this figure.
2. Potential qualifiers for EPA data can be found in Appendix E.

Abbreviations:

EPA = Environmental Protection Agency
ng/L = Nanograms per Liter

N, W, E, S

0 6 12 24

Miles

1 inch = 12 miles

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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EPA OFF-SITE SURFACE WATER - OTHER PFAS DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY:	DATE:
B. SIMEONE	2/26/2024
DRAWN BY:	FIGURE NUMBER:
G. TANASE	6-24
DATA QUALITY CHECK BY:	
G. GREGORY	

554CurryRd-PT	8/11/2023
PFOSA	2
PFHpA	1.9

316OllochHillRd-PT	8/15/2023
PFHpA	11
PFHxA	6.4
PFBS	1.4

805CurryRd-PT	9/1/2023
PFHpA	3.1
PFHxA	2

16355TickRidgeRd-PT	8/9/2023
PFHpA	2.4
PFOSA	1.5

747SchwendemanRd-PT	8/15/2023
PFHpA	9.5
PFHxA	8.5

283SchwendemanRd-PT	8/11/2023
PFHpA	5.3
PFHxA	5.2
PFOSA	3

1433DixonRd-PT	8/1/2023
PFBS	9.9
PFHxA	6.6
PFHpA	6.3
PFOSA	3.8

20262SandRockRd-PT	8/15/2023
PFHpA	2.5

7601StRt144-PT	8/8/2023
PFHpA	5
PFHxA	1.4

Service Layer Credits: World Street Map (ESRI)

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-25_DotMap_SW_Chem_PFOA_and_Other_PFAS.mxd

Legend

Chemours Washington Works

PFOA (ng/L)

- <RL
- >RL to ≤20
- >20 to ≤50
- >50 to ≤100
- >100 to ≤250
- >250

851 Regulatory Location Identifier

Notes:

1. The most recent PFOA result for each spring is represented by the dot color shown on the map. The 21 springs for which there are no data boxes posted are locations where only PFOA was analyzed and no GAC system was installed because the criteria of 0.070 micrograms per liter (µg/L) was not exceeded, alternative water supply options were selected (i.e. bottled water or connection to public water), or the offer of treatment was not accepted or not responded to. The nine springs with databoxes posted are springs with PFOA results greater than 0.070 µg/L and where GAC treatment systems have been installed; the most recent results for PFAS detected other than PFOA are posted.
2. See Table 1-1 for a list of PFAS full names for the abbreviations used in this figure.

Abbreviations:

RL = Reporting Limit
ng/L = Nanograms per Liter

0 7,500 15,000 30,000

Feet

1 inch = 15,000 feet

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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Chemours Spring Water - PFOA Dot Map and Other PFAS Results

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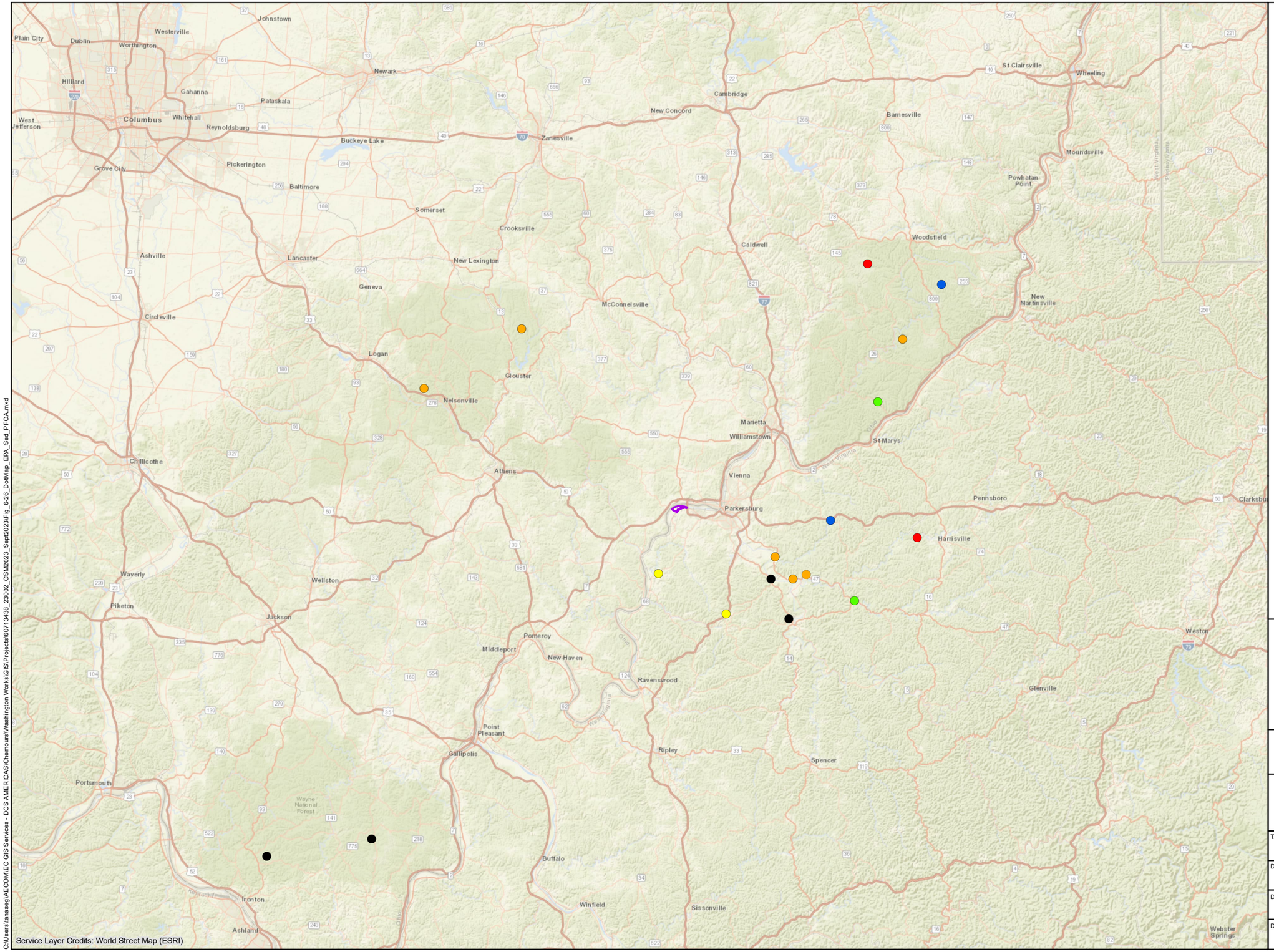
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: K. DAVIS	DATE: 2/26/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-25
DATA QUALITY CHECK BY: G. GREGORY	



C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-26_DotMap_EPA_Sed_PFOA.mxd

Legend

Chemours Washington Works

PFOA (ng/kg)

- <RL
- >RL to ≤50
- >50 to ≤75
- >75 to ≤100
- >100 to ≤200
- >200 to ≤774

Abbreviations:
EPA = Environmental Protection Agency
PFOA = Perfluorooctanoic Acid
RL = Reporting Limit
ng/kg = Nanograms per Kilogram

N
W E
S

0 6 12 24
Miles
1 inch = 12 miles

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EPA OFF-SITE SEDIMENT - PFOA DOT MAP

2023 Updated Conceptual
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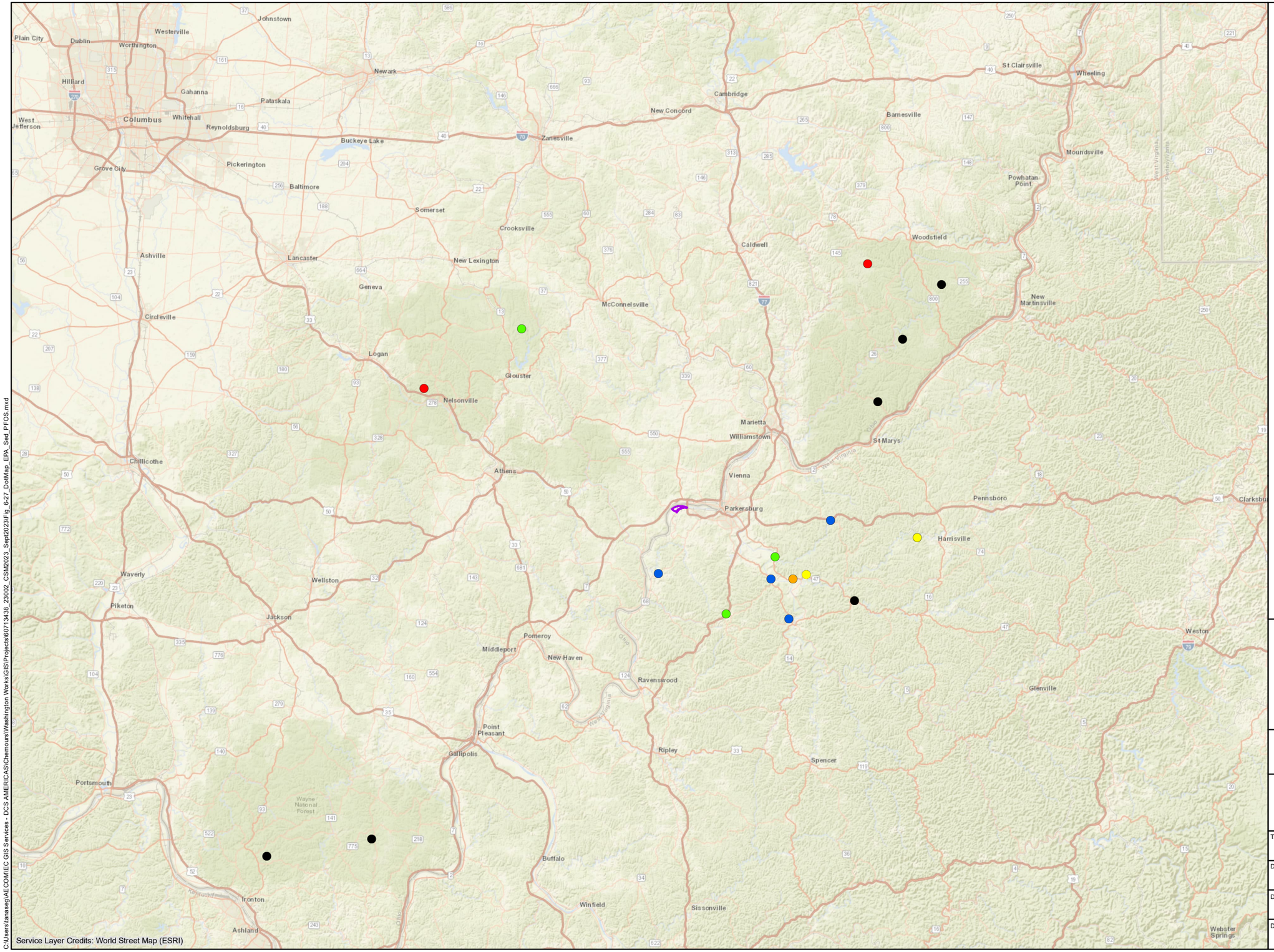
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: B. SIMEONE	DATE: 2/26/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-26
DATA QUALITY CHECK BY: G. GREGORY	



C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-27_DotMap_EPA_Sed_PFOS.mxd

Legend

Chemours Washington Works

PFOS (ng/kg)

- <RL
- >RL to ≤50
- >50 to ≤75
- >75 to ≤100
- >100 to ≤200
- >200 to ≤259

Abbreviations:
EPA = Environmental Protection Agency
PFOS = Perfluorooctanesulfonic Acid
RL = Reporting Limit
ng/kg = Nanograms per Kilogram

N
W E
S

0 6 12 24
Miles
1 inch = 12 miles

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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EPA OFF-SITE SEDIMENT - PFOS DOT MAP

2023 Updated Conceptual
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Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER: 23002	PROJECT NUMBER: 60713438
DESIGNED BY: B. SIMEONE	DATE: 2/26/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-27
DATA QUALITY CHECK BY: G. GREGORY	

WWP-SD-04-220815	
PFUnA	116
PFNA	107
HFPO-DA	102
PFDA	89.3
PFHpA	64

WWP-SD-02-220815	
PFUnA	206
PFDoA	102
PFTriA	77.2

WWP-SD-10-220816	
PFUnA	75.1
PFNA	54.4

WWP-SD-09	
PFNA	141
PFUnA	100
PFBS	90.9

WWP-SD-06	
HFPO-DA	51.2
PFUnA	30.2

Service Layer Credits: World Street Map (ESRI)

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Legend

Chemours Washington Works

PFAS Other than PFOA and PFOS (ng/kg)

- Detected
- Not Detected Above the Reporting Limit

Notes:

1. See Table 1-1 for a list of PFAS full names for the abbreviations used in this figure.
2. Potential qualifiers for EPA data can be found in Appendix E.

Abbreviations:

EPA = Environmental Protection Agency
ng/kg = Nanograms per Kilogram

N

0 6 12 24

Miles

1 inch = 12 miles

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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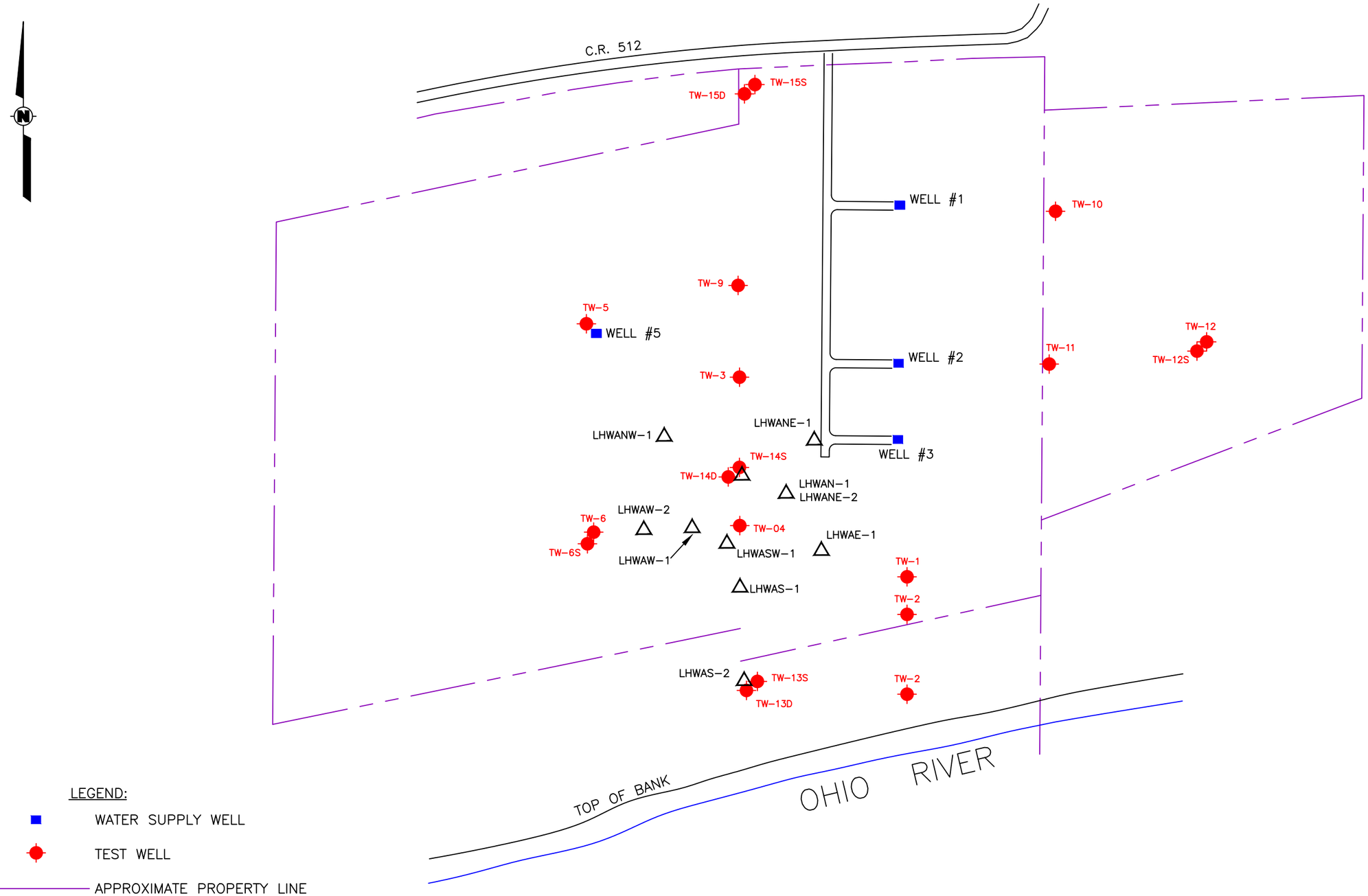
EPA OFF-SITE SEDIMENT - OTHER PFAS DOT MAP

2023 Updated Conceptual
Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: B. SIMEONE	DATE: 2/26/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-28
DATA QUALITY CHECK BY: G. GREGORY	



LEGEND:

- WATER SUPPLY WELL
- TEST WELL
- APPROXIMATE PROPERTY LINE
- TEMPORARY BORING LOCATION

SCALE

200' 0 200'

TASK NUMBER:	23002
DESIGNED BY:	K. DAVIS
DRAWN BY:	G. TANASE
DATA QUALITY CHKD:	G. GREGORY

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2002 LHWA Test Well and Temporary Boring Soil and Groundwater Sampling

60713438

01/22/2024

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Chemours Washington Works Plant
Washington, West Virginia

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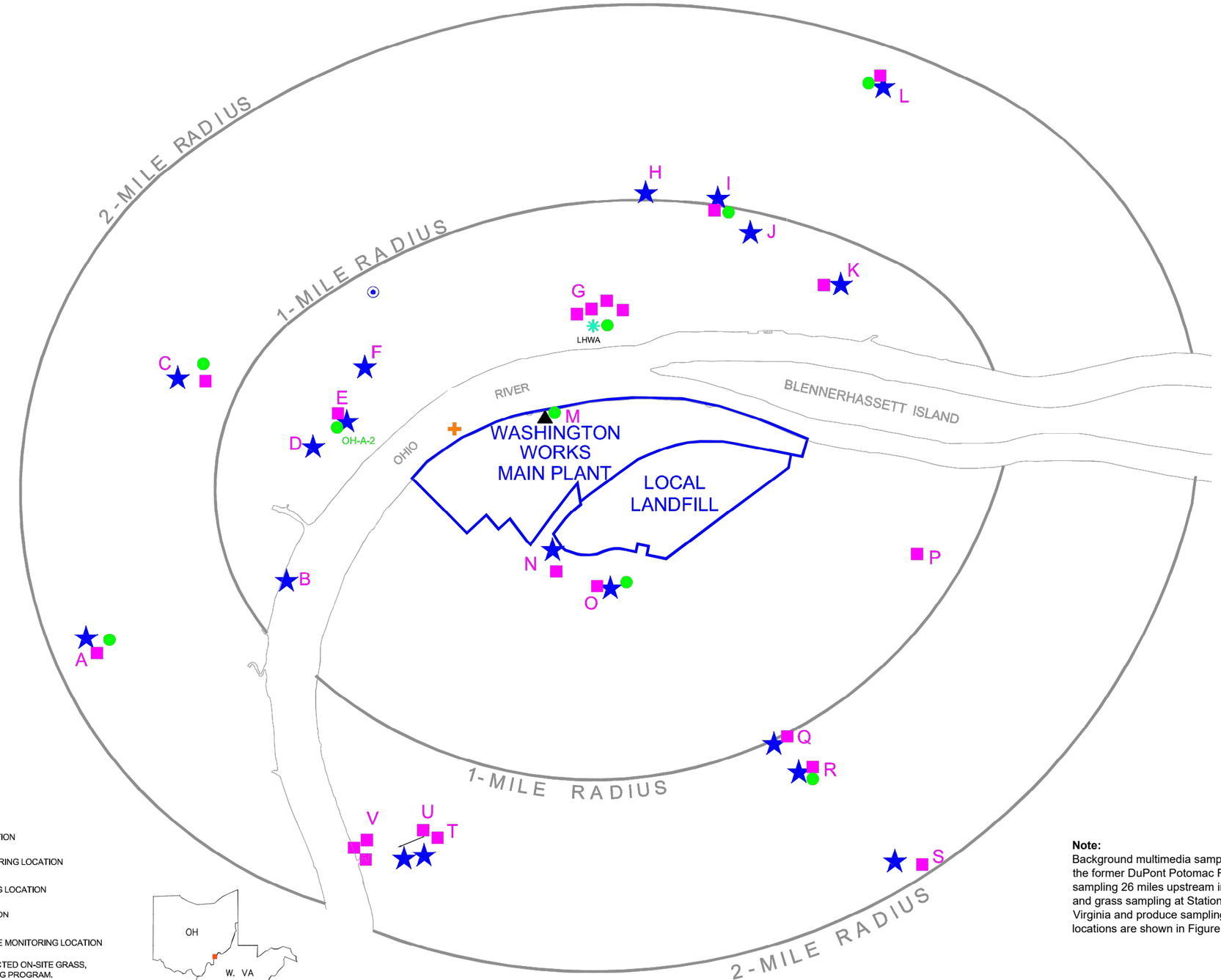

LEGEND:

- FISH MONITORING LOCATION
- SMALL MAMMAL MONITORING LOCATION
- SOIL/GRASS MONITORING LOCATION
- AIR MONITORING LOCATION
- PRIVATE WATER SOURCE MONITORING LOCATION
- LOCATION OF THE SELECTED ON-SITE GRASS, ROOT AND SOIL SAMPLING PROGRAM.
- DuPONT METEOROLOGICAL STATION

NOTE: LOCATIONS ARE APPROXIMATE.

SCALE
1150 0 1150'

Note:
Background multimedia sampling locations included: small mammal sampling at the former DuPont Potomac River Works in Falling Water, West Virginia; fish sampling 26 miles upstream in the Ohio River near St. Marys, West Virginia; soil and grass sampling at Station #16, located east of the Site near Waverly, West Virginia and produce sampling from Elkton, Maryland. Background sampling locations are shown in Figure 6-37.

TASK NUMBER:	23002
DESIGNED BY:	K. DAVIS
DRAWN BY:	G. TANASE
DATA QUALITY CHKD:	G. GREGORY

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2005 Off-Site Multimedia Monitoring Locations around the Washington Works Site

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Chemours Washington Works Plant
Washington, West Virginia

/ /

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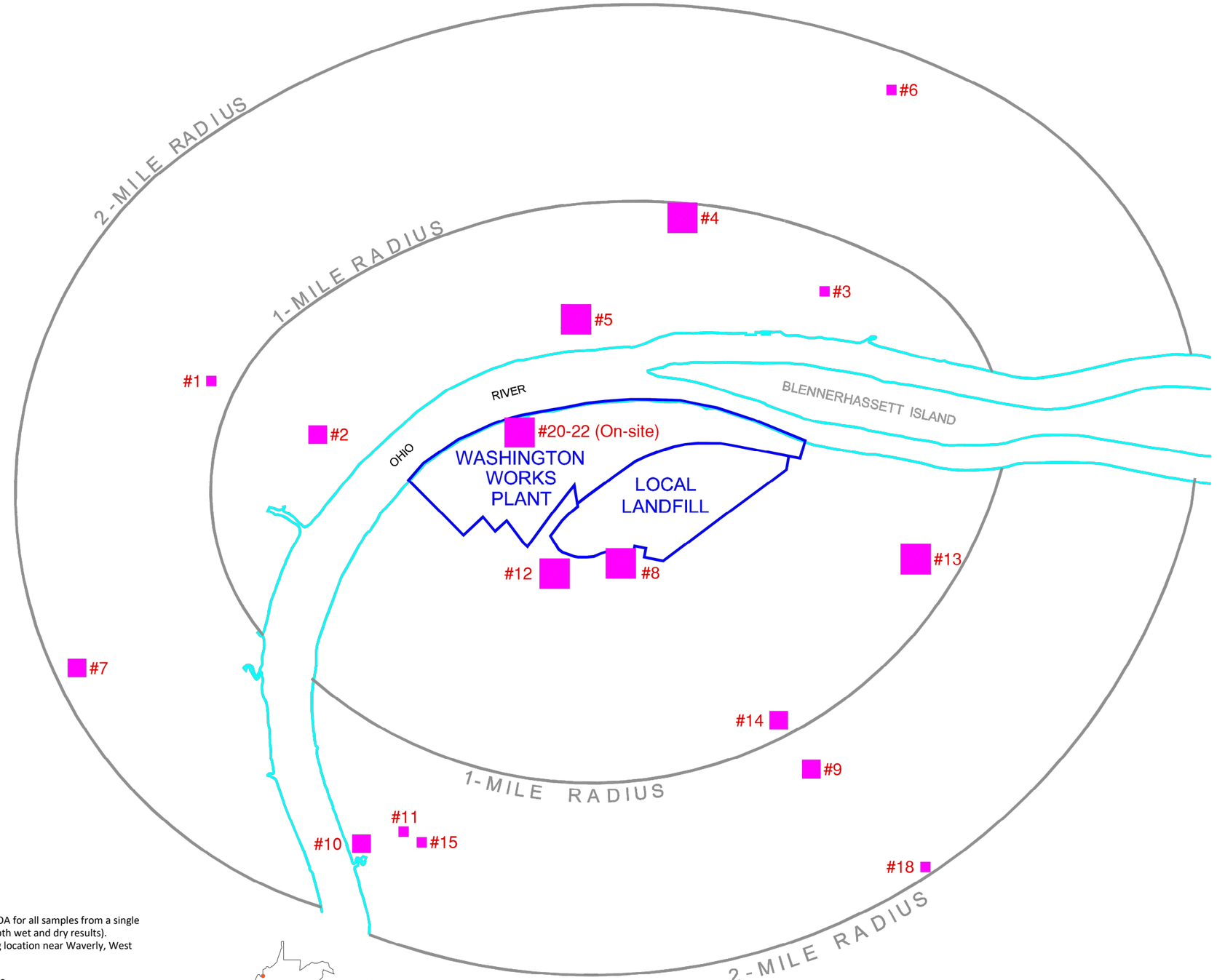


LEGEND:

#7 Soil Sampling Station Number

>50 µg/kg PFOA IN SOIL

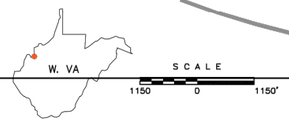
>25 µg/kg PFOA IN SOIL

<25 µg/kg PFOA IN SOIL

µg/kg = micrograms per kilogram

NOTES:

1. Data shown in this figure is the average PFOA for all samples from a single location (the 0 to 1 inch and 1 to 6 inch depth wet and dry results).
2. Station #16 is the background soil sampling location near Waverly, West Virginia.
3. There was no Station #17.
4. See Table 5-2 for Results for Stations #20-22.
5. Locations are approximate.



TASK NUMBER: 23002

DESIGNED BY: K. DAVIS

DRAWN BY: G. TANASE

DATA QUALITY CHKD: G. GREGORY

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2005 Off-Site Averaged "Dry" and "Wet" Event Soil PFOA Results

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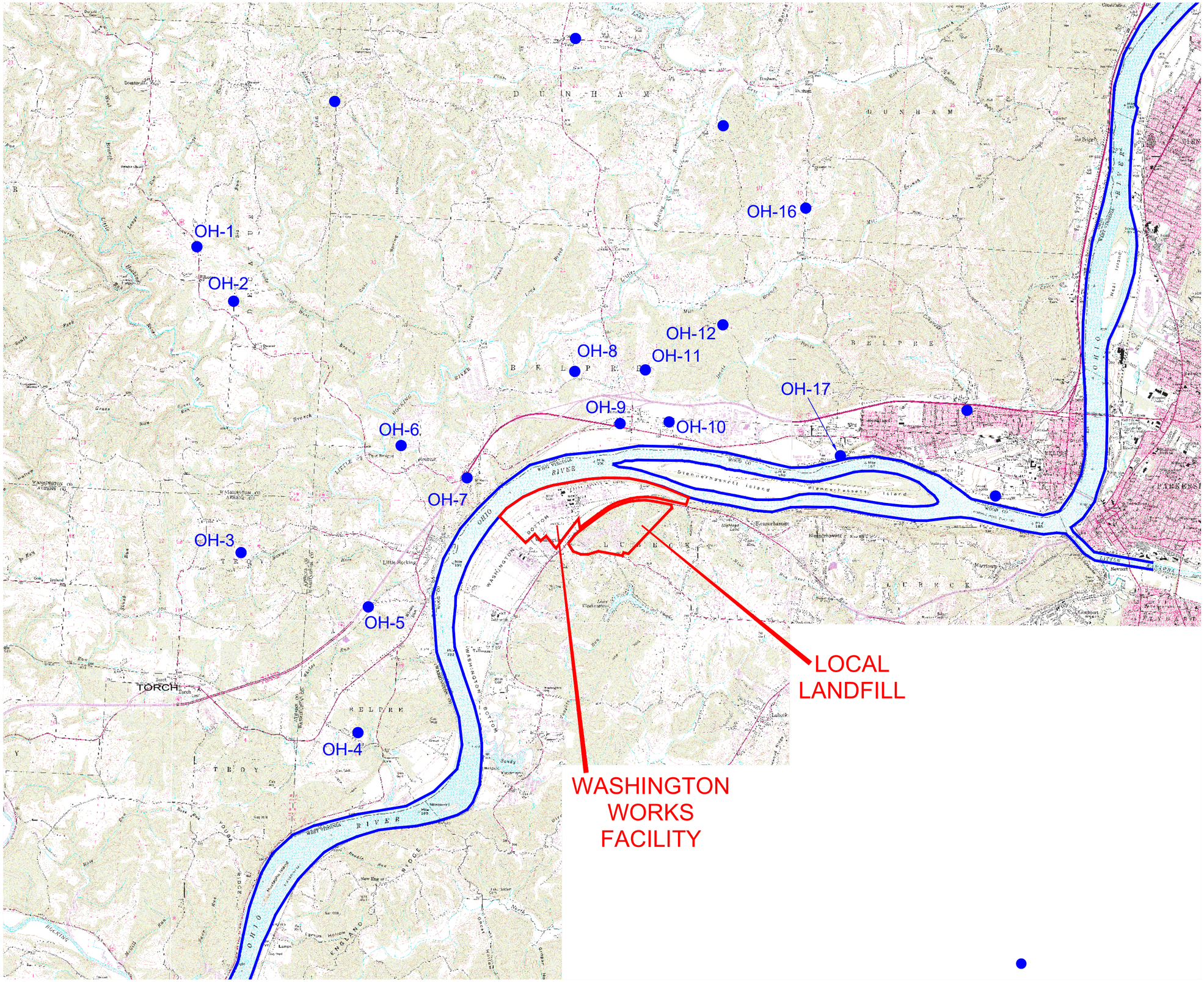

SCALE

1200 meter 0 1200 meter

IMAGE REFERENCE: IMAGES TAKEN FROM THE U.S.G.S. QUADRANGLE MAPS

23002	AECOM AECOM 248 Chapman Road Suite 101 Newark, DE 19702		60713438
K. DAVIS			2/13/2024
G. TANASE			
G. GREGORY			

C:\Users\tanaseg\AECOM\EC GIS Services - - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-32_Multimedia_Sampling_Locs_Ohio_2011.mxp, 2/13/2024 2:03 PM, Tanase, Gabriel, AutoCAD PDF (High Quality Print).pc3, ANSI full bleed C (22.00 x 17.00 Inches), 1"=0" = 1'-0"

WASHINGTON WORKS FACILITY

LOCAL LANDFILL

WV-1

WV-2

WV-3

WV-4

WV-5

WV-6

WV-7

WV-8

WV-9

WV-10

LEGEND:

MULTI-MEDIA SAMPLE LOCATION

IMAGE REFERENCE: iMAGES TAKEN FROM THE U.S.G.S. QUADRANGLE MAPS

SCALE

1200 meters 0 1200 meters

TASK NUMBER:	23002
DESIGNED BY:	K. DAVIS
DRAWN BY:	G. TANASE
DATA QUALITY CHKD:	G. GREGORY

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2011 Multimedia Sampling Locations - West Virginia

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Chemours Washington Works Plant
Washington, West Virginia

PROJECT NO.:	60713438
DATE:	2/13/2024
FIGURE NO.:	6-33

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-33_Multimedia_Sampling_Locs_WV_2011.dwg

5-MILE RADIUS

2-MILE RADIUS

1-MILE RADIUS

OHIO

WEST VIRGINIA

OH-1
OH-2
OH-3
OH-4
OH-5
OH-6
OH-7
OH-8
OH-9
OH-10
OH-11
OH-12
OH-13
OH-14
OH-15
OH-16
OH-17
OH-18
OH-19

WV-1
WV-2
WV-3
WV-4
WV-5
WV-6
WV-7
WV-8
WV-9
WV-10

33

FACILITY LANDFILL

FLUOROPOLYMERS MANUFACTURING FACILITY

SCALE
0.8 MILES 0 0.8 MILES

IMAGE REFERENCE: IMAGES TAKEN FROM THE U.S.G.S. QUADRANGLE MAPS

LEGEND:

SOIL PFOA (µg/kg)

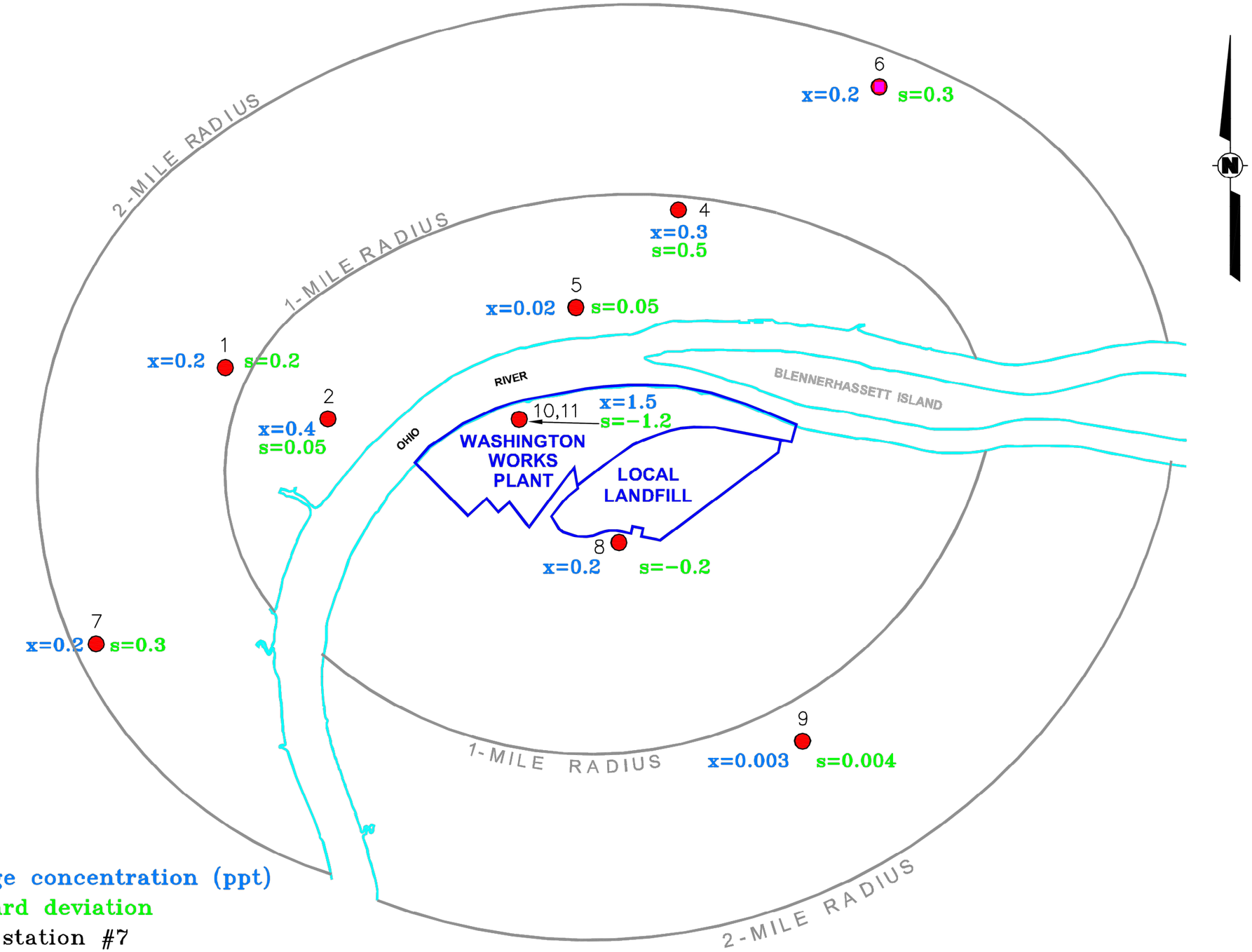
- > DL - 5
- >5 - 10
- >10 -20
- 33 >20 (PFOA CONCENTRATION POSTED)

DL = DETECTION LIMIT
PFOA = PERFLUOROOCTANOIC ACID
µg/kg = MICROGRAMS PER KILOGRAM

MULTI-MEDIA SAMPLE LOCATION

TASK NUMBER: 23002	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	2011 Off-Site Soil PFOA Results	PROJECT NO.: 60713438
DESIGNED BY: K. DAVIS			DATE: 2/13/2024
DRAWN BY: G. TANASE		2023 Updated Conceptual Site Model Report Chemours Washington Works Plant Washington, West Virginia	FIGURE NO.: 6-34
DATA QUALITY CHKD: G. GREGORY			

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-34_OffSite_Soil_PFOA_Results_2011.dwg



NOT TO SCALE

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-35_Ambient_Air_Results_Avg_9_events_2005.dwg

TASK NUMBER:	23002
DESIGNED BY:	K. DAVIS
DRAWN BY:	G. TANASE
DATA QUALITY CHKD:	G. GREGORY

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2005 Ambient Air Results Averaged Over Nine Events Converted to Parts

/ /

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Chemours Washington Works Plant
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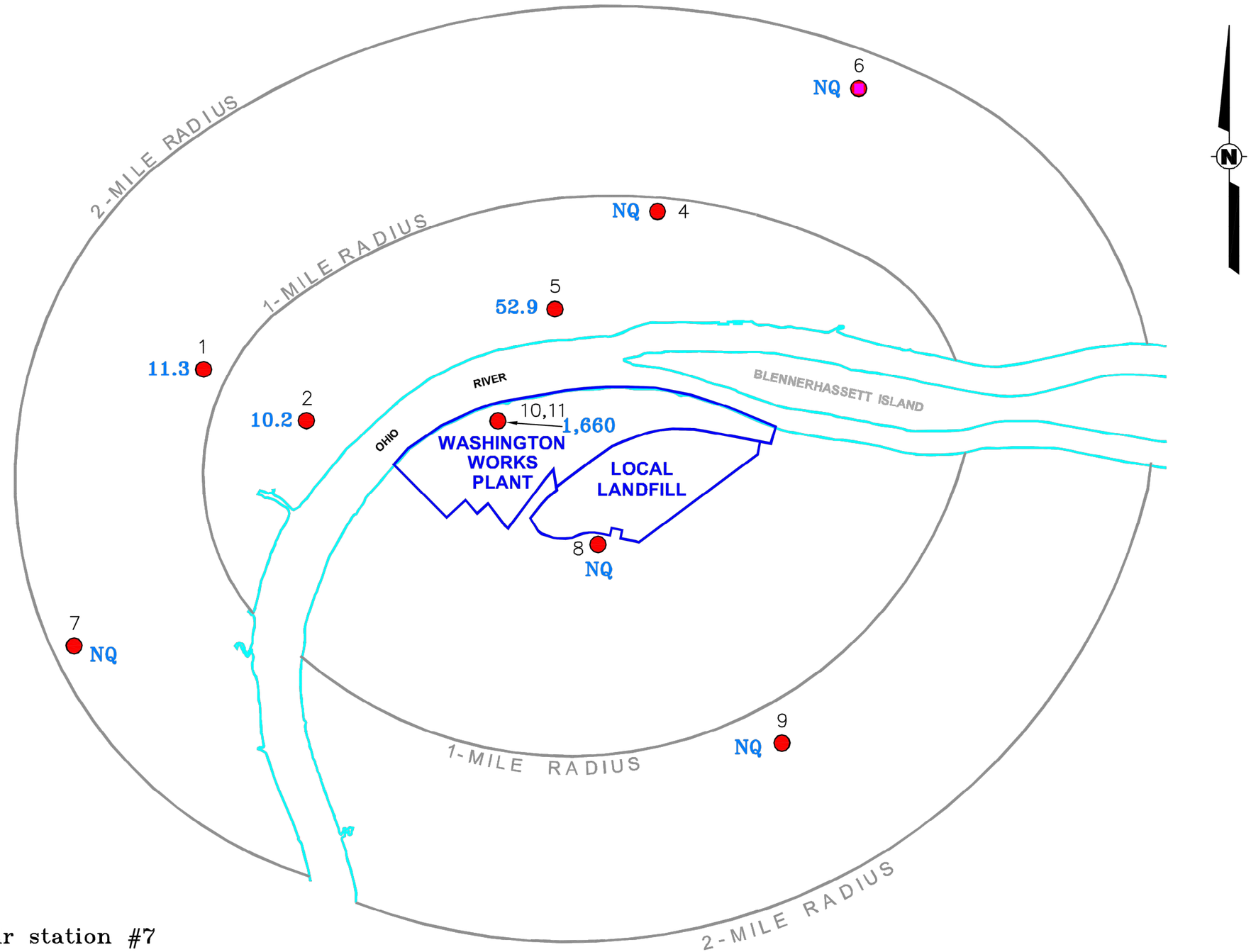

● 7 = air station #7

NOTES:

NQ = Not detected at the limit of quantitation

PFOA in nanograms per liter

NOT TO SCALE

TASK NUMBER:	23002
DESIGNED BY:	K.L.D.
DRAWN BY:	D. H. ENGLISH
DATA QUALITY CHKD:	G. GREGORY

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Newark, DE 19702

2005 Rain PFOA Results

/ /

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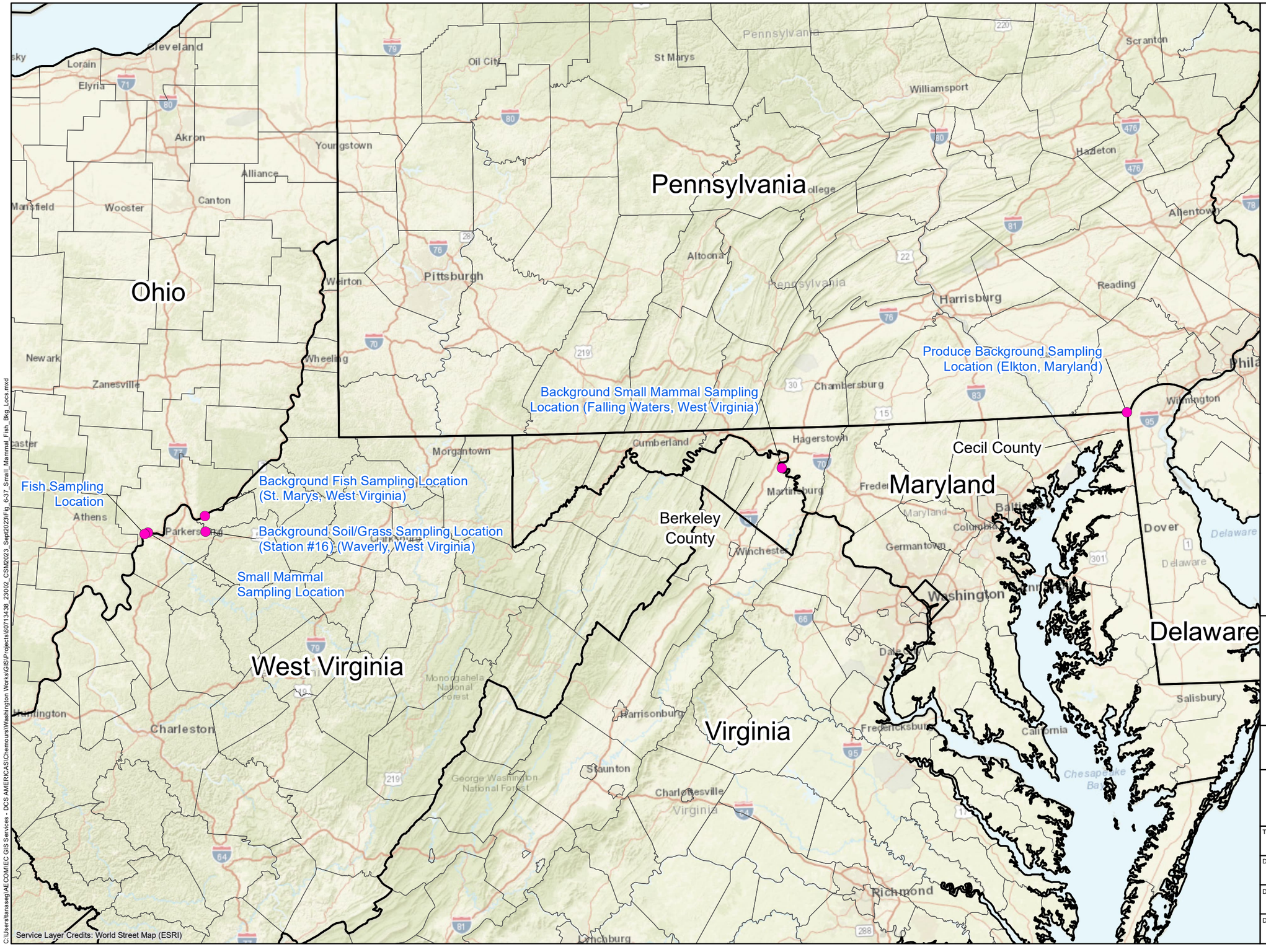

Legend

- Chemours Washington Works
- Sampling Location

0 15 30 60

Miles

1 inch = 30 miles

MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
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Small Mammal, Fish, and Background Sample Locations

2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	PROJECT NUMBER:
23002	60713438
DESIGNED BY: K. DAVIS	DATE: 2/26/2024
DRAWN BY: G. TANASE	FIGURE NUMBER: 6-37
DATA QUALITY CHECK BY: G. GREGORY	

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_23002_CSM2023_Sept2023\Fig_6-37_Small_Mammal_Fish_Bkg_Locs.mxd

Appendices

Appendix A

2014 Conceptual Site Model (Figure 6 of the October 2014 URS Corrective Measures Study Report)

NORTH

SOUTH

WASTE WATER TREATMENT PLANT

MANUFACTURING FACILITY

GAC SYSTEM

DRINKING WATER

MANUFACTURING FACILITY

PROCESS WATER

SWMU

NPDES PERMITTED OUTLET DISCHARGE

RIVER

RIVER RECHARGE

LEACHING BY SURFACE WATER TO GROUNDWATER

PRODUCTION WELL PUMPING

LEACHING BY SURFACE WATER TO GROUNDWATER

NOTES:

- Transport pathways in green contain SWMU-related VOCs and PFOA (RCRA-regulated)
- Transport pathways in purple contain PFOA from permitted historical air emissions (WVDEP permit-regulated); See Appendix A of the Corrective Measures Study Report (URS, 2014) for details
- Granulated activated carbon (GAC) treatment system removes PFOA
- Wastewater treatment system removes VOCs to concentrations below the NPDES discharge permit limits
- Drawing is a schematic cross-section, but represents conditions across the entire site and is not to scale

ENGINEERED CAP

TIE -IN WITH EXISTING COVER

IMPERMEABLE COVER

SWMU

SWMU-RELATED PFOA AND VOCs (RCRA-REGULATED)

PERMEABLE COVER / SOILS

PFOA FROM PERMITTED HISTORICAL AIR EMISSIONS (WVDEP PERMIT-REGULATED)

ALLUVIAL AQUIFER GROUNDWATER ELEVATION

PERCHED WATER ELEVATION

DIRECTION OF GROUNDWATER FLOW

TREATED DRINKING WATER

PRODUCTION WELL

RANNEY WELL

OVERBANK DEPOSITS (CLAY)

PERCHED GROUNDWATER IN OVERBANK DEPOSITS

ALLUVIAL SEDIMENTS (SAND & GRAVEL)

ALLUVIAL AQUIFER

BEDROCK

PRECIPITATION/ SURFACE WATER

DESIGNED BY: K. DAVIS	URS Corporation Iron Hill Corporate Center 4051 Ogletown Road, Suite 300 Newark, Delaware 19713 Phone: 302-781-5900	SITE CONCEPTUAL MODEL (2014)	PROJECT NO. 18986404
DRAWN BY: D. LITTEL			DATE 1/28/14
DATA QUALITY CHKD: M. HOULDAY		DUPONT WASHINGTON WORKS FACILITY WASHINGTON, WEST VIRGINIA	FIGURE No: 6
APPROVED BY:			

V:\Projects\Dupont\Washington Works\cad\18986404\drawings\Figure 6 – Site Conceptual Model (2014).dwg, 8/5/2014 9:40 AM, Littel, David E, PDF995.pc3, User32767, 1"=0" = 1'-0"

Appendix B

Test Pit Logs, Soil Borings, Well Logs, and Historical Geological Cross Sections

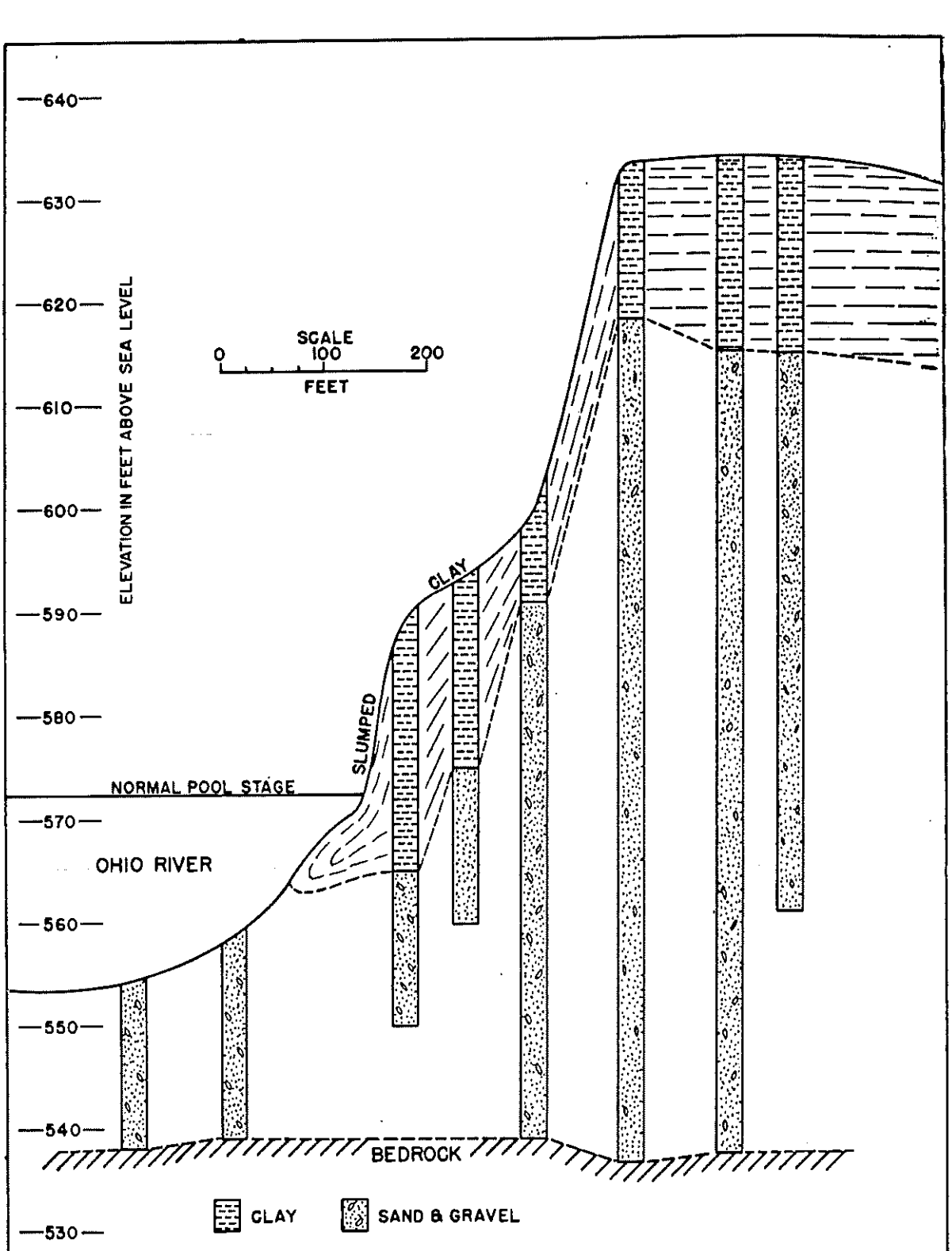

Figure No. 6

CROSS SECTION BASED ON TEST BORINGS AT E.I. du PONT de NEMOURS, POLY-CHEMICALS DIVISION, WASHINGTON BOTTOM, SHOWING RIVERBANK SLUMPING OF FLOOD-PLAIN CLAY.

Source: Carlston and Graeff 1955.

WELL INFORMATION – DRIFT WELLS

The Layne Ohio Company

A Division of
LAYNE-WESTERN COMPANY, INC.
WATER SUPPLY SERVICES
WATER WELLS • LAYNE PUMPS • TEST DRILLING • WATER TREATMENT EQUIPMENT
4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job Little Hocking Sewer & Water Date 1/8/85

City or Village Little Hocking, Ohio State Ohio

Well No.: Prod #4 Drillers: F. Webb - F. Morris Rig: 28

Well Location: _____ ft. (____) and _____ ft.(____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as Approximately 400' south of existing Well #3. Existing well field located south of C.H. 7,12

Work Began: 12/12/84 Work Completed: 1/8/85 Well Depth to Plug: 56'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material				
36'	12"	.375	steel	with welded	joints from	_____	to _____
39'	24"	.375	steel	with welded	joints from	_____	to _____
_____	_____	_____	_____	with _____	joints from	_____	to _____

Screen Record: Type Cook Note: Screen exposed from 37' to 55.5'.

Amount	Dia.	Opening	Material				
20'	12"	100 slot	stainless	with _____	joints from	_____	to _____
_____	_____	_____	_____	with _____	joints from	_____	to _____

Type of Seal at Bottom stainless plate bottom

Hole Record:

_____ inch from _____ to _____

_____ inch from _____ to _____

FILE

Gravel Pack Record:

Amount	Size	Source	From	To
120 bags	1/8" x 1/4"	Parry	20'	56'

SEE OTHER SIDE

WELL LOG

Feet		Feet	Description
0	to	3	Top soil - brownish clay
3	to	36	Brown and gray clay
36	to	39	Gray clay with gravel
39	to	45	Coarse sand and gravel
45	to	46	Sandstone
46	to	51	Coarse sand and gravel
51	to	52	Sandstone
52	to	56	Coarse to fine sand with some gravel
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level 15' 9" ; pumping level 31'10" after 24 hours pumping at 412 g.p.

Length of test 24 hrs. See Well Test Data Sheet Dated 1/8/85

REMARKS:

All measurements taken from ground level

FILE

WELL INFORMATION – DRIFT WELLS

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4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job Little Hocking Water & Sewer Date 12-20-85

City or Village Little Hocking State Ohio

Well No.: P.W. 5 Drillers: F. Webb & D. Colburn Rig: 45

Well Location: _____ ft. (____) and _____ ft.(____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as Adjacent to T.H. 5 and T.W. 5A

Work Began: 12-3-85 Work Completed: 12-12-85 Well Depth to Plug: 56'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material				
43	24"	.375	steel	with welded	joints from		to
43	12"	.375	steel	with welded	joints from		to
				with	joints from		to

Screen Record: Type Cook

Amount	Dia.	Opening	Material				
15'	.375		S.S.	with welded	joints from	5	to 15
				with	joints from		to

Type of Seal at Bottom S.S. Plate

Hole Record:

24" inch from 0 to 56'

_____ inch from _____ to _____

FILE

Gravel Pack Record:

Amount	Size	Source	From	To
4 ton	¼'x1/8"	Parry Gravel	56'	21'

O.E.P.A. S.E.D.O. 2002 JAN 31 PM 12:27

WELL LOG

Feet		Feet	Description
0	to	20	Brown clay
20	to	27	Brown sandy clay
27	to	37	Brown clay with coarse to fine sand
37	to	45	Medium to coarse sand and gravel with ~~sand~~ fine sand
45	to	57	Medium to coarse sand and gravel
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level 18'8" ; pumping level 31'± after 24 hours pumping at 402 g.p.m.

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

FILE

WELL INFORMATION – DRIFT WELLS

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4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job: Little Hocking Date: 8/31/84

City or Village: Little Hocking State: Ohio

Well No.: TW-1 Drillers: D. Havens Rig: SR

Well Location: _____ ft. (____) and _____ ft. (____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as ~~150'~~ 300' south of PW #3

Work Began: 8/30/84 Work Completed: 8/30/84 Well Depth to Plug: 55'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material				
50'	3"	Sch. 40	PVC	with screw	joints from		to
				with	joints from		to
				with	joints from		to

Screen Record: Type Slot .010

Amount	Dia.	Opening	Material				
5'	3"	.010	PVC	with screw	joints from		to
				with	joints from		to

Type of Seal at Bottom: PVC

Hole Record:

_____ inch from _____ to _____

_____ inch from _____ to _____

Gravel Pack Record:

Amount	Size	Source	From	To
1100#	#4	Parry Gravel	58'	30'

O.E.P.A.
S.E.D.O.
2002 JAN 31 PM 12:27

FILE

WELL LOG

Feet		Feet	Description
0	to	5	Brown clay
5	to	10	Brown sandy clay
10	to	15	Brown sandy clay, traces of gray clay
15	to	32	Brown sandy clay, layers of sand
32	to	53	Sand and gravel
53	to	57	Red shale, blue shale
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level 17.7' ; pumping level _____ after _____ hours pumping at _____ g.p.m.
1-6-85

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

File

WELL INFORMATION – DRIFT WELLS

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4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job Little Hocking Date 8/31/84

City or Village Little Hocking State Ohio

Well No.: TW-2 Drillers: D. Havens Rig: SR

Well Location: _____ ft. (____) and _____ ft.(____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as ~~300'~~ 500' south of PW 3

Work Began: 8/30/84 Work Completed: 8/30/84 Well Depth to Plug: 55'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material				
50	3	Sch. 40	PVC	with	screw	joints from _____	to _____
				with		joints from _____	to _____
				with		joints from _____	to _____

Screen Record: Type Slot .010

Amount	Dia.	Opening	Material				
5'	3"	.010	PVC	with	screw	joints from _____	to _____
				with		joints from _____	to _____

Type of Seal at Bottom PVC

Hole Record:

_____ inch from _____ to _____

_____ inch from _____ to _____

Gravel Pack Record:

Amount	Size	Source	From	To
1300#	#4	Parry Gravel	58'	30'

1982 JAN 31 PM 12:41 OHIO DEPT. OF NATURAL RESOURCES

FILE

SEE OTHER SIDE

WELL LOG

Feet		Feet	Description
0	to	5	Brown clay
5	to	30	Brown sandy clay, layers of sand
30	to	55	Sand and gravel
55	to	58	Red shale and blue shale
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level 18.3' ; pumping level _____ after _____ hours pumping at _____ g.p.m.
1-8-85

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

FILE

WELL INFORMATION – DRIFT WELLS

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Name of Job Little Hocking Date 8/31/84

City or Village Little Hocking State Ohio

Well No.: TW-3 Drillers: D. Havens Rig: SR

Well Location: _____ ft. (____) and _____ ft.(____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as 300' west of existing wells. Along edge of right-away

Work Began: 8/28/84 Work Completed: 8/28/84 Well Depth to Plug: 55'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material					
50'	3"	Sch. 40	PVC	with	screw	joints from		to
				with		joints from		to
				with		joints from		to

Screen Record: Type Slot #.010

Amount	Dia.	Opening	Material					
5'	3"	#010	PVC	with		joints from		to
				with		joints from		to

Type of Seal at Bottom PVC

Hole Record:

_____ inch from _____ to _____

_____ inch from _____ to _____

Gravel Pack Record:

Amount	Size	Source	From	To
1100#	#4	Parry Gravel	58'	30'

FILE

SEE OTHER SIDE

WELL LOG

Feet		Feet	Description
0	to	5	Brown clay
5	to	30	Brown sand clay, traces of gray clay 10' - 15'
30	to	55	Sand and gravel
55	to	58	Blue shale
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level 20.1' ; pumping level _____ after _____ hours pumping at _____ g.p.m.
1-8-85

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

WELL INFORMATION – DRIFT WELLS

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Name of Job: Little Hocking Date: 8/31/84

City or Village: Little Hocking State: Ohio

Well No.: TW-4 Drillers: D. Havens Rig: SR

Well Location: _____ ft. (____) and _____ ft. (____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as 300' west of existing wells along edge of right-away south of Well No. 3

Work Began: 8/29/84 Work Completed: 8/29/84 Well Depth to Plug: 54'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material				
54'	3"	Sch. 40	PVC	with screw	joints from		to
				with	joints from		to
				with	joints from		to

Screen Record: Type Slot #010 PVC

Amount	Dia.	Opening	Material				
5'	3"	.010	PVC	with screw	joints from		to
				with	joints from		to

Type of Seal at Bottom PVC

Hole Record:

_____ inch from _____ to _____

_____ inch from _____ to _____

FILE

Gravel Pack Record:

Amount	Size	Source	From	To
1100#	#4	Parry Gravel	58	30

2002 JAN 31 PM 12:27
OEPA SEDO

WELL LOG

Feet		Feet	Description
0	to	5	Brown Clay
5	to	10	Brown sandy clay
10	to	15	Brown sandy clay, traces of gray clay
15	to	30	Brown sandy clay, trace of sand
30	to	54	Sand and gravel
54	to	58	Blue shale
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level 18.6' ; pumping level _____ after _____ hours pumping at _____ g.p.m.
1-8-85

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

FILE

WELL INFORMATION – DRIFT WELLS

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WATER SUPPLY SERVICES

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4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job: Little Hocking Sewer & Water Date: 11/2/84

City or Village: Little Hocking State: Ohio

Well No.: TW-5 Drillers: D. Havens Rig: Rotary

Well Location: _____ ft. (____) and _____ ft. (____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as 300' west of T.H. #3

Work Began: 10/30/84 Work Completed: 10/30/84 Well Depth to Plug: 56'

All measurements made from existing ground level at time well was drilled.

2002 JAN 31 PM 12:27 OEPA SEDO

Casing Record:

Amount	Dia.	Wt. or Thickness	Material				
51'	4"	40	PVC	with	joints from	to	
				with	joints from	to	
				with	joints from	to	

Screen Record: Type Diedrich

Amount	Dia.	Opening	Material				
5'	4"	.010	PVC	with	joints from	to	
				with	joints from	to	

Type of Seal at Bottom PVC plug

FILE

Hole Record:

7 7/8 inch from 0 to 50'

_____ inch from _____ to _____

Gravel Pack Record:

Amount	Size	Source	From	To
1500#	1/8x1/4	Smith Concrete	30'	56'

LO-6

SEE OTHER SIDE

WELL LOG

Feet		Feet	Washed Samples — Description
0	to	28	Brown clay, stiff
28	to	32	Brown Sandy clay
32	to	38	Brown sandy clay, soft
38	to	41	Gray sand, traces of clay (more clay)
41	to	56	Sand and gravel, fine sand
56	to	60	Gray shale
	to		Spoons
32	to	34	Sand, traces of clay, brown
37	to	38	Brown sand, traces of clay
38	to	39	Gray sand, traces of clay
39	to	42	Washed
42	to	44	Sand and gravel
42	to	47	Washed
47	to	49	Sand and gravel
47	to	52	Washed
52		54	Sand and gravel
54	to	56	Washed

Well Test Data: Static Level 18.8' ; pumping level _____ after _____ hours pumping at _____ g.p.m.
1-8-85

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

FILE

WELL INFORMATION – DRIFT WELLS

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WATER SUPPLY SERVICES

WATER WELLS • LAYNE PUMPS • TEST DRILLING • WATER TREATMENT EQUIPMENT

4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job Little Hocking Water & Sewer Date 11-25-85

City or Village Little Hocking State Ohio

Well No.: T.W. 5A Drillers: D.L. Havens Rig: Rotary

Well Location: _____ ft. (____) and _____ ft.(____) of the _____ corner

Section _____, Twp. _____ (____), Range _____ (____) _____ Coun

Otherwise located as Adjacent to existing T.W. #5

Work Began: 11-21-85 Work Completed: 11-21-85 Well Depth to Plug: 56'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material				
48'	8"	Std.	Steel	with weld	joints from 46'	to 6'
				with	joints from	to
				with	joints from	to

Screen Record: Type Cook

Amount	Dia.	Opening	Material			
10'	6"	040	S.S.	with	joints from	to
				with	joints from	to

Type of Seal at Bottom 3/8 steel plug

Hole Record:

10½ inch from 56' to 0

_____ inch from _____ to _____

Gravel Pack Record:

Amount	Size	Source	From	To
700 lbs.	#4	Perry	56'	15'

WELL LOG

Feet		Feet	Description
0	to	18	Hard br. clay, 5000-8000 P.D.
18	to	37	Soft sandy br. clay, 0 P.D.
37	to	44	Sand and gravel, 0 P.D.
44	to	46	Sand & gravel, traces of blue clay, 0 P.D.
46	to	56	Sand & gravel, 0 P.D.
56	to		Gray shale
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level _____; pumping level _____ after _____ hours pumping at _____ g.p.m.

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

B&N collected water samples and static levels

FILE

P.D. = Pull Down on drill bit

Screen and casing to be pulled and hole backfilled, once water sample has been collected

WELL INFORMATION – DRIFT WELLS

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WATER SUPPLY SERVICES

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4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job Little Hocking Sewer & Water Date 11/2/84

City or Village Little Hocking State Ohio

Well No.: TW-6 Drillers: D. Havens Rig: Rotary

Well Location: _____ ft. (____) and _____ ft.(____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as 300' west of T.H. #4

Work Began: 10/31/84 Work Completed: 10/31/84 Well Depth to Plug: 56'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material				
51'	4"	40	PVC	with ____	joints from ____	to ____	
____	____	____	____	with ____	joints from ____	to ____	
____	____	____	____	with ____	joints from ____	to ____	

Screen Record: Type Diedrich

Amount	Dia.	Opening	Material			
5'	4"	.010	PVC	with ____	joints from ____	to ____
____	____	____	____	with ____	joints from ____	to ____

Type of Seal at Bottom PVC plug

Hole Record:

7 7/8 inch from 0 to 60'

____ inch from ____ to ____

FILE

Gravel Pack Record:

Amount	Size	Source	From	To
1500	1/8x1/4	Smith Concrete	30'	56'

LO-6

SEE OTHER SIDE

WELL LOG

Feet		Feet	Description
0	to	16	Brown clay, stiff
16	to	36	Brown sandy clay with traces of gray clay
36	to	42	Sand and gravel (small)
42	to	56	Sand, some small gravel (mostly sand)
56	to	60	Gray shale
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level 18'3" ; pumping level _____ after _____ hours pumping at _____ g.p.m.
1-29-85

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

FILE

WELL INFORMATION – DRIFT WELLS

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WATER SUPPLY SERVICES

WATER WELLS • LAYNE PUMPS • TEST DRILLING • WATER TREATMENT EQUIPMENT

4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job: Little Hocking Water & Sewer — Date: 11-25-85

City or Village: Little Hocking — State: Ohio

Well No.: 7 — Drillers: D.L. Havens — Rig: Rotary

Well Location: _____ ft. (____) and _____ ft.(____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as 300-400' west of TW-6, south of TW-8

Work Began: 11-18-85 — Work Completed: 11-18-85 — Well Depth to Plug: 56

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material					
53	6"	40	P.V.C.	with	glue	joints from	51'	to 11'
				with		joints from		to
				with		joints from		to

Screen Record: Type Cook

Amount	Dia.	Opening	Material					
5'	6"	010	P.V.C.	with		joints from		to
				with		joints from		to

Type of Seal at Bottom: P.V.C. cap

Hole Record:

8¾ inch from 0 to 56'

_____ inch from _____ to _____

FILE

Gravel Pack Record:

Amount	Size	Source	From	To
500 lbs.	#4	Parry	56'	18'

SEE OTHER SIDE

WELL LOG No. 7

Feet		Feet	Description
0	to	12	Hard brown clay, 7000 P.D.
12	to	18	Stiff sandy brown clay, 4000 P.D.
18	to	25	Soft sandy brown clay, 0-1000 P.D.
25	to	35	Soft sandy brown clay, 0 P.D.
35	to	42	Sand, trace of gray clay & small gravel, 0 P.D.
42	to	45	Gray sand, traces of clay, 0 P.D.
45	to	56	Sand and gravel
56	to		Gray shale
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level _____; pumping level _____ after _____ hours pumping at _____ g.p.m.

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

B&N collected water samples and static levels

P.D. = Pull Down on drill bit

FILE

WELL INFORMATION – DRIFT WELLS

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4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job Little Hocking Water & Sewer Date 11-25-85

City or Village Little Hocking State Ohio

Well No.: 8 Drillers: D.L. Havens Rig: Rotary

Well Location: _____ ft. (___) and _____ ft.(___) of the _____ corner of

Section _____, Twp. _____ (___), Range _____ (___) _____ County.

Otherwise located as 300-400' west of TW #5, north of TW #7

Work Began: 11-20-85 Work Completed: 11-20-85 Well Depth to Plug: 50'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material					
42'	6"	040	P.V.C.	with	glue	joints from	45'	to 5'
				with		joints from		to
				with		joints from		to

Screen Record: Type Cook

Amount	Dia.	Opening	Material					
5'	6"	010	P.V.C.	with		joints from		to
				with		joints from		to

Type of Seal at Bottom P.V.C. Cap

Hole Record:

8¼ inch from 0 to 50'

_____ inch from _____ to _____

FILE

Gravel Pack Record:

Amount	Size	Source	From	To
500 lbs.	#4	Parry	50'	15'

SEE OTHER SIDE

WELL LOG No. 8

Feet		Feet	Description
0	to	10	Br. clay, 2000 - 3000 lbs. P.D.
10	to	18	Soft sandy br. clay, 0 - 1000 P.D.
18	to	35	Soft sandy gray clay, 0 P.D.
36	to	42	Sand & gravel, traces of blue clay, 0 P.D.
42	to	50	Sand and gravel
50	to		Gray shale 10,000
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level _____; pumping level _____ after _____ hours pumping at _____ g.p.m.

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

B&N collected water samples and static levels

P.D. = Pull Down on drill bit

FILE

WELL INFORMATION – DRIFT WELLS

The Layne Ohio Company

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WATER SUPPLY SERVICES

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4921 Vulcan Avenue · Columbus, Ohio 43228 · (614) 876-1195

Name of Job: Little Hocking Water & Sewer Date: 11-25-85

City or Village: Little Hocking State: Ohio

Well No.: 9 Drillers: D. L. Havens Rig: Rotary

Well Location: _____ ft. (____) and _____ ft. (____) of the _____ corner of

Section _____, Twp. _____ (____), Range _____ (____) _____ County.

Otherwise located as 200-300' northwest of PW 1

Work Began: 11-19-85 Work Completed: 11-19-85 Well Depth to Plug: 56'

All measurements made from existing ground level at time well was drilled.

2002 JAN 31 PM 12:21

Casing Record:

Amount	Dia.	Wt. or Thickness	Material					
53'	6"	40	P.V.C.	with	glue	joints from	51'	to 11'
				with		joints from		to
				with		joints from		to

Screen Record: Type Cook

Amount	Dia.	Opening	Material					
5'	6"	010	P.V.C.	with		joints from		to
				with		joints from		to

Type of Seal at Bottom P.V.C. cap

Hole Record:

8½ inch from 0 to 56'

_____ inch from _____ to _____

FILE

Gravel Pack Record:

Amount	Size	Source	From	To
600 lbs.	#4	Perry	56'	18'

LO-6

SEE OTHER SIDE

WELL LOG

Feet		Feet	Description
0	to	8	Hard brown clay, 5000 lbs. P.D.
8	to	18	Med. to hard brown sandy clay, 0-1000 P.D.
18	to	28	Soft sandy brown clay, 0 P.D.
28	to	38	Sandy silt and soft brown clay, 0 P.D.
38	to	56	Sand and gravel, 0 P.D.
56	to		Gray shale
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

Well Test Data: Static Level _____; pumping level _____ after _____ hours pumping at _____ g.p.m.

Length of test _____ hrs. See Well Test Data Sheet Dated _____

REMARKS:

B&N collected water samples and water static levels

P.D. = Pull Down on drill bit

FILE

Reynolds Supply, Inc.

COMPLETE MUNICIPAL & INDUSTRIAL WATER SYSTEMS

FORMATION LOG OF WELL

Starting Date 10/27/87 Finished 10/27/87 Well Number Test Hole 10

Owner LITTLE HOCKING WATER DISTRICT Location

TOTAL DEPTH	THICKNESS EACH STRATUM	FORMATION
- 5 ft.	5 ft.	Top Soil and clay
5 - 10	5	Clay
- 15	5	Clay
15 - 20	5	Clay
- 25	5	Clay
25 - 30	5	Coarse sand and gravel
- 35	5	Coarse sand and Gravel
- 40	5	Fine sand and gravel
40 - 45	5	Fine sand and gravel
50	5	Fine sand and some gravel
50 - 53	3	Sand and gravel
53		Bedrock

FILE

Static Water Level Draw Down

Reynolds Supply, Inc.

COMPLETE MUNICIPAL & INDUSTRIAL WATER SYSTEMS

FORMATION LOG OF WELL

ng Date 10/27/87 Finished 10/27/87 Well Number Test Hole 11

er LITTLE HOCKING WATER DISTRICT Location

OTAL DEPTH	THICKNESS EACH STRATUM	FORMATION
- 5 ft.	5 ft.	Sandy topsoil and clay
- 10	5	Sandy silt and clay
- 15	5	Sandy clay
- 20	5	Sandy clay
- 25	5	Sandy clay
- 30	5	Sand (wet)
- 35	5	Clean sand and gravel
- 40	5	Coarse clean sand and gravel
- 45	5	Coarse sand and gravel
50	5	Coarse sand and gravel
- 55	5	Coarse sand and gravel
- 60	5	Fine sand and gravel
- 63	3	Fine Sand
3		Bedrock - red clay

2002 JAN 31 PM 12:27
O.E.P.A.
S.E.D.O.

FILE

Water Level Draw Down

Reynolds Supply, Inc.

COMPLETE MUNICIPAL & INDUSTRIAL WATER SYSTEMS

FORMATION LOG OF WELL

arting Date 10/28/87 Finished 10/28/87 Well Number TEST HOLE 12

wner LITTLE HOCKING WATER DISTRICT Location

TOTAL DEPTH	THICKNESS EACH STRATUM	FORMATION
0 - 5 ft.	5 ft.	Top Soil
5 - 10	5	Sandy clay
10 - 15	5	Sandy clay
15 - 20	5	Sandy clay
20 - 25	5	Wet sandy clay
25 - 30	5	Wet Sandy clay
30 - 35	5	Coarse sand and gravel
35 - 40	5	Coarse sand and gravel
40 - 45	5	Coarse sand and gravel
- 50	5	Coarse sand and gravel
50 - 55	5	Coarse sand and gravel
55 - 59	4	Fine sand and gravel
59		Bedrock

2002 JAN 21 PM 2:17 O.E.P.A. S.E.D.O.

FILE

tic Water Level Draw Down

WELL LOG AND DRILLING REPORT

(54) ORIGINAL WELL 3

NO CARBON PAPER NECESSARY— SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
65 S. Front St., Rm. 815 Phone (614) 469-2646
Columbus, Ohio 43215

450860

AK - see quad

County Washington Township Belpre Section of Township

Owner Little Hocking Water & Sewer Assn Address Little Hocking, Ohio

Location of property 785' South of County Route 712
160 South of #2 Production Well

CONSTRUCTION DETAILS

Casing diameter 12" Length of casing 34'

Type of screen Cook Length of screen 20'

Type of pump ——

Capacity of pump ——

Depth of pump setting ——

Date of completion 3-10-76

BAILING OR PUMPING TEST
(Specify one by circling)

Test Rate 503 G.P.M. Duration of test 2 hrs.

Drawdown 8 ft. Date 3-10-76

Static level-depth to water 15' 5" ft.

Quality (clear, cloudy, taste, odor)

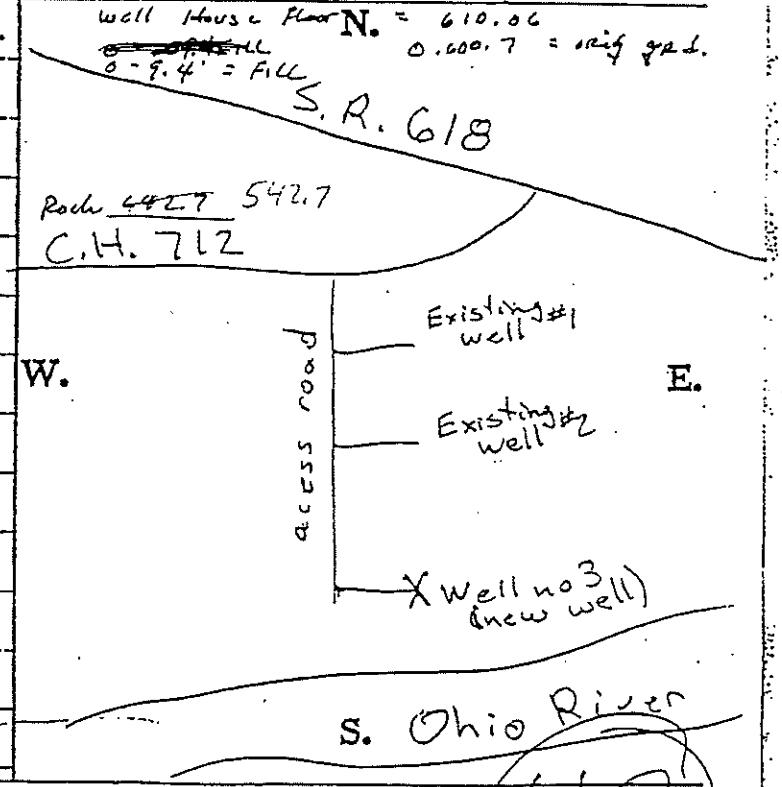
Pump installed by

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Clay-brown	0 Feet	14 Ft.
Sandy clay-brown	14'	34'
Sand, gravel	34'	56'
Red Shale	56'	57'

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



Drilling Firm Layne Ohio Co Date 4-29-76

Address 1100 W. Town St Columbus, Ohio 43222 Signed S. Couch

42

*If additional space is needed to complete well log, use next consecutive numbered form.

WELL LOG AND DRILLING REPORT

Ak 3 d 3 (54) ORIGINAL well 2

NO CARBON PAPER NECESSARY— SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
65 S. Front St., Rm. 815 Phone (614) 469-2646
Columbus, Ohio 43215

No. 389538

County Washington Township Belpre Section of Township

Owner Little Hocking Water Co Address

Location of property On Ohio River Flats 5 miles South & West of Belpre

CONSTRUCTION DETAILS

Casing diameter 12" Length of casing 51

Type of screen Johnson Length of screen 20'

Type of pump Dual Turbine

Capacity of pump 350 G.P.M.

Depth of pump setting 50'

Date of completion Feb. 1970

BAILING OR PUMPING TEST
(Specify one by circling)

Test Rate 400 G.P.M. Duration of test 24 hrs.

Drawdown 20 ft Date Jan. 1970

Static level-depth to water 16' (586) ft.

Quality (clear, cloudy, taste, odor) Clay

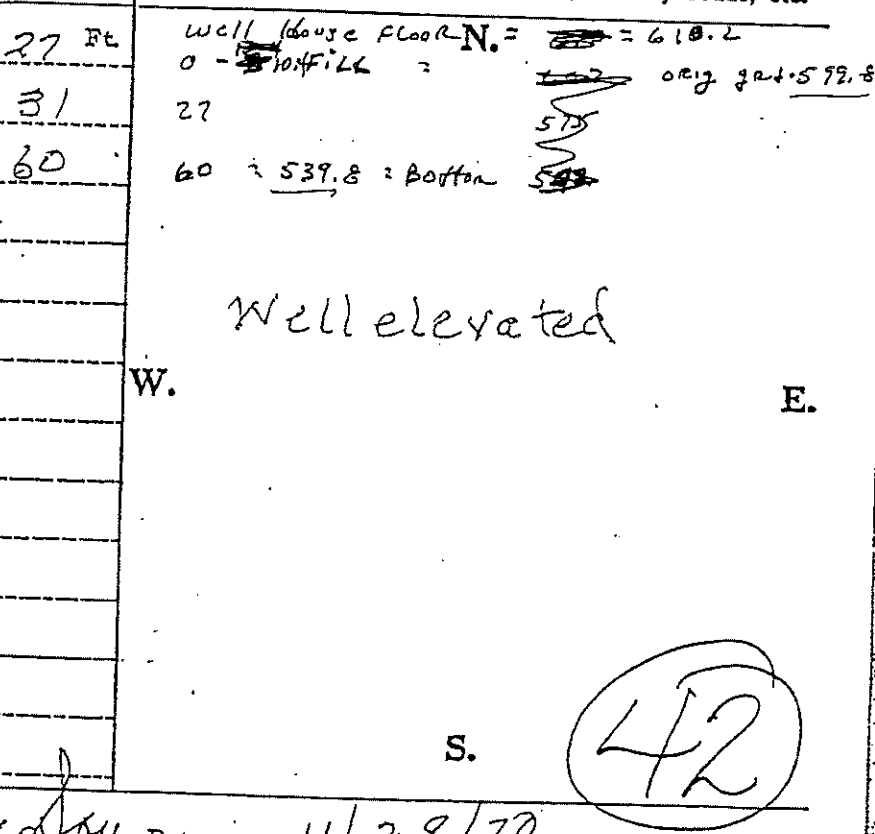
Pump installed by

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Clay & Sand	0 Feet	27 Ft.
Sand	27	31
Sand & Gravel	31	60

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



Drilling Firm G. M. Rider & Son Date 11/28/72

Address Columbus Ohio Signed W. H. Boyer

*If additional space is needed to complete well log, use next consecutive numbered form.

WELL LOG AND DRILLING REPORT

ORIGINAL

WELL K

NO CARBON PAPER NECESSARY— SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
65 S. Front St., Rm. 815 Phone (614) 469-2646
Columbus, Ohio 43215

ok (54)

No. 389539

2 of 3

County Washington Township Belpre Section of Township

Owner Little Hocking Water Co Address

Location of property On Ohio River Flats 5 miles South & West of Belpre Ohio

CONSTRUCTION DETAILS

Casing diameter 10' Length of casing 51'

Type of screen Johnson Length of screen 9

Type of pump DW Turbine

Capacity of pump 250

Depth of pump setting 40'

Date of completion Feb 1970

BAILING OR PUMPING TEST
(Specify one by circling)

Test Rate 250 G.P.M. Duration of test 40 hrs.

Drawdown 25 ft. Date Jan 1970

Static level-depth to water 10' ft.

Quality (clear, cloudy, taste, odor) Clear

Pump installed by

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Clay & Sand	0 Feet	22 Ft.
Sand & Clay	22	36
Sand & Gravel with Clay	36	40
Fine sand & gravel	40	50

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

well House Floor 0 - 18' Fill

N. = ~~[illegible]~~ 610 orig grd. 592

542 Bot of well

Well elevated

W. E.

S.

42

Drilling Firm G.M. Baker & Son Date 11/28/70

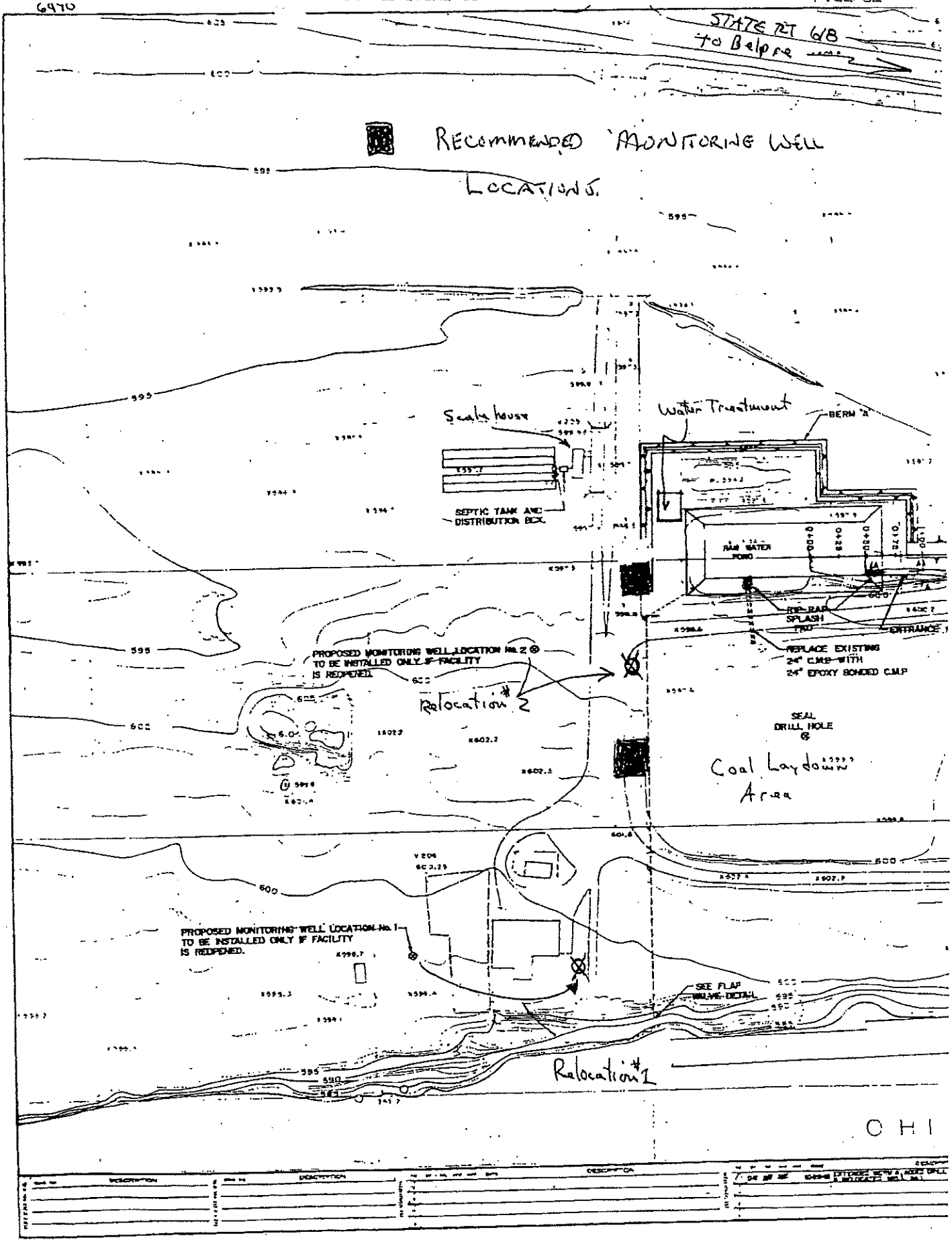
Address Columbus Ohio Signed [illegible] Boger

*If additional space is needed to complete well log, use next consecutive numbered form.

6970

STATE RT 68 to Belpre

RECOMMENDED MONITORING WELL LOCATIONS.



TOTAL P.02

WELL LOG AND DRILLING REPORT

ORIGINAL

NO CARBON PAPER NECESSARY— SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
65 S. Front St., Rm. 815 Phone (614) 469-2646
Columbus, Ohio 43215

No. 400971

County Washington Township Belpre Section of Township

Owner Chesterhill Stone Co. Address Chesterhill, Ohio

Location of property Partridge Rd, 5 mi downstream from Belpre.

CONSTRUCTION DETAILS

Casing diameter 8" 10 Length of casing 56'

Type of screen PERF. Length of screen 5'

Type of pump submersible

Capacity of pump 3 HP

Depth of pump setting 44

Date of completion June 17, 1970

BAILING OR PUMPING TEST
(Specify one by circling)

Test Rate 70 G.P.M. Duration of test 4 hrs.

Drawdown 10 ft. Date June 17, 1970

Static level-depth to water 18 ft.

Quality (clear, cloudy, taste, odor) cloudy
Contained blue silt

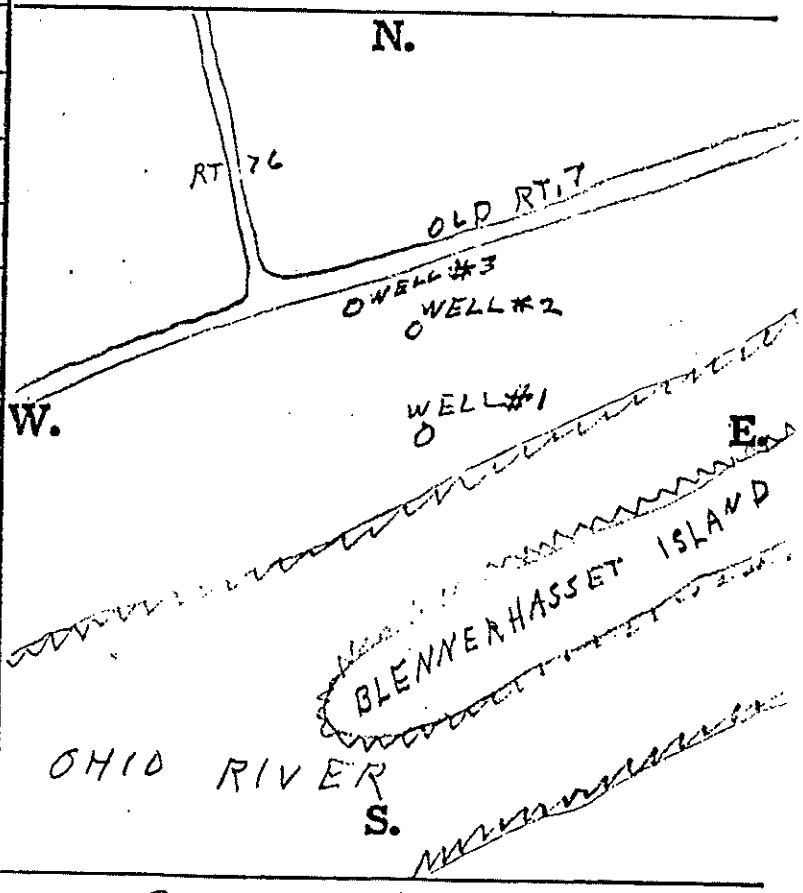
Pump installed by driller

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
sand	0 Feet	44 Ft.
sandy gravel	44	49
muddy gravel	49	56
blue alluvial clay	56	57
shale	57	58
red	58	64+
well #2 & #3 were the same but very clear.		
#2 is 47 ft, made 25 gpm		
#3 is 45 ft, made 60 gpm.		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



Drilling Firm DWIGHT E. PRICE — Well Drilling Contractor—

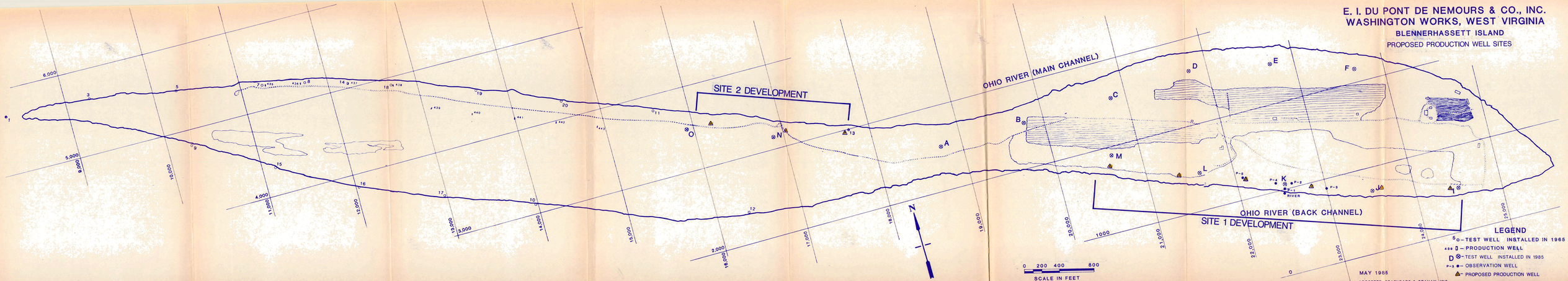
Address Rt. 1 — Malta, Ohio 43758 Phone 962-2758

Date June 29, 1970

Signed Dwight E. Price

*If additional space is needed to complete well log, use next consecutive numbered form.

E. I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON WORKS, WEST VIRGINIA
BLENNERHASSETT ISLAND
PROPOSED PRODUCTION WELL SITES



LEGEND

- 5 ⊙ – TEST WELL INSTALLED IN 1965
- 438 □ – PRODUCTION WELL
- D ⊗ – TEST WELL INSTALLED IN 1985
- P-3 ● – OBSERVATION WELL
- ▲ – PROPOSED PRODUCTION WELL

MAY 1985

LEGGETTE, BRASHEARS & GRAHAM, INC.

E. I. DU PONT DE NEMOURS & COMPANY, INC. HYDROGEOLOGIC EVALUATION FOR ADDITIONAL WATER SUPPLY FROM BLENNERHASSETT ISLAND

Prepared For

E. I. du Pont de Nemours & Company, Inc.

May 1986

LEGGETTE, BRASHEARS & GRAHAM, INC.
Consulting Ground-Water Geologists
72 Danbury Road
Wilton, CT 06897

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E. I. DU PONT DE NEMOURS & COMPANY, INC. HYDROGEOLOGIC EVALUATION FOR ADDITIONAL WATER SUPPLY FROM BLENNERHASSETT ISLAND

INTRODUCTION

There are presently 4 sources of ground-water supply for Washington Works. The River Gallery and Ranney Collector, both installed under the Ohio River in the central plant area, are each capable of producing 1000 gpm (gallons per minute). The East Well Field, consisting of 7 wells installed near the bank of the river in the eastern part of the plant, has a combined capacity of 1850 gpm. The Blennerhassett Island Well Field derives 4400 gpm from 9 wells at or close to the bank of the main channel of the river on the downstream half of the Island. The total capacity from these sources is now 8250 gpm. In 1985, the average demand was 8200 gpm, but by 1987, if no new sources of supply are developed, there will be a shortfall of 500 gpm. This will increase to 1350 gpm in 1988 and to 1700 gpm in 1989.

In March 1985, Leggette, Brashears & Graham, Inc. (LBG) was retained by du Pont to prepare an investigative plan which would lead to the development of an additional ground-water supply from Blennerhassett Island. Whereas the present ground-water withdrawals are from the downstream half of the Island, the plan was to evaluate the overall potential of the entire Island.

PREVIOUS STUDIES

In September 1964, LBG recommended a testing program for the development of a ground-water supply from Blennerhassett Island. From June to September 1965, 17 test wells, 6 inches in diameter, were installed on the downstream half

of the Island, near the shore, along both the main and back channels of the Ohio River (Plate 1). Following completion, each well was test pumped for a short period of time. Based on the results of these tests, one large diameter well was installed and a three-day pumping test was performed. Data obtained from this test indicated that a significant amount of infiltration from the Ohio River could be induced by pumping wells installed along the main channel side of the Island. In 1966, 4 production wells were installed, followed by 3 in 1973 and 2 more in 1978. The 9 production wells were installed at 500-foot intervals along the main channel, and each well was completed with 20-inch diameter screen.

Data gathered by du Pont in 1978, during a study to determine the cause for the reduced yield capacities of Wells 435, 436, 437 and 438, indicated that the cone of depression on the ground-water surface resulting from pumping the Island wells was extensive and reached across the main channel in the vicinity of the pumped wells. This suggested that the resource was fully subscribed from the downstream half of the Island.

INSTALLATIONS OF TEST WELLS (1985)

An analysis of the hydrogeologic data from the 1965 testing program suggested that the permeability of the aquifer increases in the upstream direction. Therefore, this ground-water investigation was primarily focused on the upstream half of the Island. In addition, the study was designed so that there would be minimal intrusion to the development of the historical resources of the Island.

The exploratory drilling and installation of the test wells on the upstream half of the Island was conducted between October 1985 and January 1986. Thirteen test wells were drilled at the locations shown on Plate 1. Six test wells were installed to the east of Well 13, adjacent to but about 200 feet inland from the main channel at a spacing

interval of 1000 feet. Five test wells were located on the back-channel side, also 1000 feet apart and about 200 feet from the shore. In addition, 2 test wells were drilled to the west of Well 13.

The drilling of test wells was accomplished by the cable-tool method. At Sites A, D, F, K, and O an 8-inch diameter casing was installed in the unconsolidated sediments to the top of the bedrock. During the drilling of these wells, sediment samples were obtained using a bailer and the samples were described by an LBG hydrogeologist. Geologic logs of these wells are included in Appendix I. The drilling of the remaining 8 test wells was completed without supervision by a hydrogeologist. Therefore, the logs for these wells are based on the driller's descriptions of the sediments penetrated and revised by the LBG hydrogeologist when samples were available for analysis. Logs for these wells are also found in Appendix I.

The drilling of the 13 test wells coupled with data from previous studies show that there is a continuous aquifer under all of Blennerhassett Island. The aquifer is of glacio-fluvial origin and consists of coarse-grained sand and gravel overlain by finer-grained sediments. The alluvial and outwash glacial deposits overlie a shale or sandstone bedrock encountered between 45 and 65 feet below the surface. The saturated sediments on the upstream half of the Island range in thickness between 34 and 45 feet. The drilling data did not indicate any major clay barriers between the river and the aquifer at the new test wells. However, the examination and sieve analyses of samples suggest that the sediments are coarser and better sorted in the vicinity of Wells B, I, J, K, N and O. This was also confirmed by the short pumping tests conducted at each well.

The sediment samples collected from all 13 test wells were subjected to sieve analyses for grain-size determinations by Well Strainer Corporation. Samples collected from the 5 wells which were drilled under the supervision of a

hydrogeologist were also sieved by LBG personnel. The results were used to select the screen opening size for each test well.

Well construction procedures consisted of drilling and driving 8-inch casing to bedrock, inserting a 10-foot telescoping screen, equipped with a packer at the top, and setting it opposite the deepest and most permeable zone in the aquifer. The 8-inch casing was then withdrawn enough to expose the well screen. The construction details of the 13 test wells are summarized in table 1.

After completion, each well was developed by airlift pumping and mechanical surging. This was done by using the following equipment:

1. cable-tool drilling rig;
2. air compressor;
3. 4-inch diameter water eductor pipe;
4. 1½-inch air injector line installed inside of the 4-inch pipe;
5. water discharge line valve; and
6. double packer surge-block with the blocks set 2 feet apart and attached to the 4-inch eductor pipe.

The development procedure consisted of combining airlift pumping and the surging effects provided by the double packer surge block. The assembly was raised and lowered by means of the reciprocating action of the walking beam on the drilling rig at 20 to 30 strokes per minute. This operation started with the surge blocks at the upper end of the screen and proceeded downward until the bottom of the screen was reached. The surge blocks were maintained in action opposite each 2-foot interval of screen until the water discharge from the airlift pump was relatively free of sand.

WELL YIELD AND SPECIFIC CAPACITY

Following installation and development, each test well was pumped for a short period of time. The purposes of these tests were:

1. to evaluate the yield potential of a production well at the site by measuring specific capacity (yield per unit of water-level drawdown);
2. to establish the location of the test well which would be used for the long-term pumping test.

Each well was pumped at two or more pumping rates for a minimum of one hour at each rate using a temporary submersible pump. The pumping rate was measured by an open-end 4½-inch orifice on a 6-inch diameter discharge pipe. The results of these tests are listed on table 2.

The measured specific capacities show a mixed pattern. Between Wells O and B on the main channel side of the Island, with the exception of Well A, the values were high, ranging generally from 30 to 45 gpm/ft dd. Further upstream, from Wells C to F, the values are relatively low, in the 10-15 gpm/ft dd range. Along the back channel, Wells L and M have specific capacities which are approximately 12-17 gpm/ft dd while those further upstream, Wells J and K, are about 22-23 gpm/ft dd. Well I, closest to the upstream end of the island, has the highest value which is in excess of 50 gpm/ft dd.

The elevations of the tops of the screens and the static water levels are relatively constant for the upstream part of Blennerhassett Island resulting in available water-level drawdown of 29 to 35 feet (table 3). Therefore, the specific capacity has been used to indicate the most favorable sites for future production wells. From these data, the most productive wells would be located between Test Wells O and 13 on the main channel side of the Island. Somewhat less productive would be those located between Test Wells I and K along the back channel.

AQUIFER TESTING

Based on the short-term pumping tests, Well K was selected to be pumped for a 3-day period. The purposes of this test were to evaluate the effectiveness of recharge from the Ohio River and to determine the extent of the cone of depression caused by pumping production wells so that spacings between wells can be established.

Prior to the pumping test, 5 piezometers, P-1, P-2, P-3, P-4 and P-5, were installed in the vicinity of Well K. The installation of the 5 piezometers was completed by driving 2-inch diameter well points to a minimum depth of 10 feet below the water table. The locations of the piezometers are shown on Plate 1. A recording water-level gage was installed near the bank of the Ohio River for measuring the river fluctuations during the pumping test. In addition, water-level recorders were installed on Test Wells J and L.

On January 6, 1986, water levels were measured in the 13 new test wells, the 5 piezometers, the Ohio River and all available test or observation wells located on the downstream half of the Island. Beginning on January 8 and continuing until January 11, 1986, Test Well K was pumped continuously for 3 days at a rate averaging 460 gpm. During the test, water levels were measured manually periodically in the pumping well, the 5 piezometers and Wells I and M. On January 11, 1986, before the pumping test was terminated, water levels were measured again in the 13 new test wells and all available downstream wells. The water-level measurements before and at the end of the pumping test are listed in table 4.

As shown on table 4, a small drawdown response was measured in P-3 and P-5 located at 500 feet from Well K. No drawdown was observed at 1000 feet from the pumping well in Wells J and L. Piezometers P-2 and P-4 which were installed at 100 feet from Well K showed 1.97 and 1.85 feet of

drawdown, respectively. Piezometer P-1 installed 50 feet from Well K, between that well and the Ohio River, indicated 2.88 feet of drawdown. No major changes were measured in the Ohio River level during the test. Water-level drawdown values measured in the piezometers at the end of the test were plotted against the radial distances of those piezometers from the pumping well as shown on figure 1. This graph was used to compute the aquifer coefficients by the equations:

$$T = \frac{528Q}{\Delta s} \quad \text{(Cooper and Jacob)}$$

$$S = \frac{0.3\ Tt}{r_o^2}$$

where:

- T = coefficient of transmissivity in gpd/ft (gallons per day per foot width of the aquifer);
- Q = discharge rate in gpm;
- s = drawdown in feet
- S = coefficient of aquifer storage (dimensionless);
- t = elapsed time from start of pumping until stabilization of water levels in days;
- r_o = the intersection of the straight-line drawdown-distance graph with the zero drawdown axis; and,
- s = the change in drawdown per log cycle of radial distance in feet;

The drawdown-distance relationship indicates a transmissivity of approximately 116,000 gpd/ft and a storage coefficient of 8.3×10^{-3}. These data indicate that the aquifer

is highly permeable and is hydraulically semi-confined by the bedrock below and the silty, clayey sand above. The importance of the upper finer-grained stratum will be discussed later in this report.

Also shown on figure 1 is the distance at which zero drawdown occurred which is slightly more than 800 feet from the pumped well. At a distance of about 475 feet the interference drawdown was 0.5 foot while at a distance of about 275 feet the interference drawdown was 1 foot. Because of the limited available drawdown for production wells, the interference drawdown among these wells is critical. This, too, will be discussed later in this report.

The graphs on figure 2 are time-drawdown relationships for the piezometers during the pumping test at Well K. Drawdown is plotted against time since the start of pumping. It is apparent from this illustration that the effect of river recharge occurs within approximately 4 hours after pumping begins.

Ground-water temperature measured in the upstream test wells during the 3 months of investigation (November 1985 - January 1986) ranged between 53°F and 55°F. The Ohio River water temperature measured during the January 1986 pumping test was 34°F. The water temperature in Well K during the 3-day pumping test was constant at 55°F. The temperature of the water withdrawn from a production well during long-term operation depends on the temperature of the river water, distance between the well and the river, pumping rate, porosity of the sediments, temperature of ground water, and specific heat of the material in the aquifer. The changes in temperature are also associated with changes in water viscosity, which can reduce or increase the rate of ground-water flow and water infiltration from the river. Because of the short duration of pumping from Well K, insufficient information could be obtained for determining the river/ground-water temperature relationship. However, the test at

Well K was run during the winter when water temperatures were at their minimum and, therefore, the recharge conditions can be considered worst case.

Plate 2 is a map showing the configuration of the ground water surface as measured on January 6, 1986 before the start of the pumping test. It is readily apparent that in the upstream half of the Island, the ground-water surface is essentially at the level of the Ohio River, suggesting a good hydraulic connection. Plate 3 is a similar map showing the configuration of the ground-water surface at the end of the pumping test. Shown is the cone of depression caused by pumping Well K.

WATER QUALITY

Water samples were collected from 13 test wells, 5 downstream observation wells and one production well. Two samples were taken during the pumping tests performed at each test well except for Well K where 4 samples were taken. Only one sample was taken from each of the wells in the downstream half of the Island. Sampling was conducted over a period of 10 weeks between November 1, 1985 and January 11, 1986. Each water sample was measured for pH, electric conductivity, total dissolved solids and analyzed for total carbonate hardness, metals and major anions. These are presented in table 5. No analysis was made for the sample from Well O because it did not reach the laboratory.

For purposes of discussing the analyses, the last sample taken from each well is used because we believe it more truly represents the water quality in the aquifer.

The pH measurements indicate values between 6.0 and 7.7 which are normal values for ground water. Total dissolved solids (TDS) for all water samples are below the recommended upper limit for drinking water of 500 mg/l with the exception of Well A which showed a value of 560 mg/l (milligrams

per liter). Total carbonate hardness values are in excess of 150 mg/l in all wells except B, D, F and M. Water with hardness values greater than 150 mg/l is considered to be very hard (Freeze and Cherry 1979). The data show, in general, moderate levels of calcium (39 to 100 mg/l), magnesium (5.7 to 23 mg/l), and potassium (less than 0.5 to 4.0 mg/l). Although moderate levels of sodium (3.8-14 mg/l) are found in the wells from the upstream half of the island, 3 of the wells in the downstream area have levels above 20 mg/l which some consider to be the upper limit for consumption by those with heart disease.

The iron concentration ranges from less than 0.05 mg/l to as much as 2.4 mg/l. However, for the upstream half of Blennerhassett Island, the values are 0.1-0.6 mg/l while the downstream wells are in the range 1.2-2.4 mg/l except at Well 443, a pumping well, which is less than 0.05 mg/l. Moreover, in the upstream half, the wells along the main channel are 0.1-0.6 mg/l while along the back channel, the values are 0.1-0.25 mg/l.

Relatively high manganese concentrations are found in wells downstream from and including Well A, again with the exception of the pumping Well 443. High concentrations are also found in Wells F and I, the most upstream wells. Therefore, Wells B, C, D and E on the main channel and Wells M, L, K and I are within the range considered acceptable as potable water.

The other heavy metals, chloride, sulfates and nitrates all are well within standards for potable water.

EFFECT OF DOWNSTREAM PUMPING

Water levels measured on January 6 and 11 in all available wells on the Island were used to determine the approximate extent of the cone of depression caused by pumping the production wells. Plate 2 illustrates the configuration of the ground-water surface in the downstream

half of the Island on January 6, 1986 as the result of that pumping at the combined rate of 4000 gpm from the 9 production wells. Ground-water levels in the upstream half of the Island varied between 583.3 feet and 582.6 feet msl (mean sea level) while the river level was at 582.7 feet msl. Based on these data, the extent of the cone of depression is upstream from Wells 12 and 13, as shown. Therefore, the effect of pumping extends over more than half of Blennerhassett Island. Moreover, on the back channel side opposite the center of the cone of depression, there has been a ground-water level drawdown of nearly 10 feet. This suggests that there is substantial drawdown under the back channel and probably the main channel as well. If this is so, it is probably the result of the impedance of flow through the river bottom of recharge from the Ohio River which will restrict future development of ground water from Blennerhassett Island. In any event, this information strongly supports the LBG hypothesis that the ground-water resources in the downstream half of the island are fully subscribed.

Plate 3 depicts the ground-water surface on January 11, 1986 near the end of the pumping test at Well K. There is no significant change in the downstream area from that shown on Plate 2.

FUTURE GROUND-WATER DEVELOPMENT

Under present conditions, it is inadvisable to consider developing additional large quantities of ground water from the downstream half of the Island. Therefore, the major expansion of the water-supply system should take place in the upstream area recently tested. However, in view of the immediate need for more water and the existence of the pipeline as far as Well 443, some additional ground water can be withdrawn from the area upstream of that well.

Selections of areas for future ground-water development are based on the permeabilities of the sediments tested and

the quality of the water pumped. The data suggest that to minimize mutual interference among new production wells so as to maximize well yield, the spacing between adjacent wells should be a minimum of 700 feet. In addition, to use river infiltration to best advantages, the wells should be located 100 feet from the river bank. It has been LBG's observation that the Island has reached stabilization in regard to the erosional effects of raising of the river level and no further encroachment on the bank is expected. The selection of sites recommended for development and the evaluation of these sites are as follows:

Site 1 - Between Wells M and I

The selection of this site was based on testing of individual wells and the 3-day pumping test conducted at Well K. These data indicate that a total of 6 potential well sites may be developed. The proposed production wells should be installed at the locations shown on Plate 4.

It is estimated that perhaps as much as 3000 gpm from 6 individual wells can be obtained from Site 1. The use of this site for the additional water supply development has the following advantages and disadvantages.

Advantages

1. High water yield potential.

   The specific-capacity data of the test wells in this area indicate a high water yield potential (table 2). The long-term pumping test shows a high river infiltration potential in the vicinity of Well K and no significant drawdown influence more than 700 feet from the pumping well.

2. Low level of iron and manganese (table 4).

Disadvantage

1. High cost of water distribution.

The development of Site 1 would require the installation of a long pipeline.

Site 2 - Between Test Wells O and 13

It is estimated that there is a water-supply potential of approximately 1500 gpm which may be obtained from 3 wells averaging 500 gpm each in this area without serious encroachment on the existing supply. The proposed production wells should be installed between Test Wells O and 13, at the locations shown on Plate 4. The selection of this site for additional water-supply development was based on the following.

Advantages

1. High water yield potential.

The recent pumping test conducted at Wells N and O coupled with the test at Well 13 during an earlier study, indicate that the aquifer has a high yield potential at this site. The specific capacities of the 3 test wells in this area are the highest of all the wells tested, except Well I.

2. Connection to the existing water distribution system.

If there is sufficient unused capacity in the present pipeline, it would require its extension by only about 1400 feet.

Disadvantages

1. High level of manganese.

Water samples indicated 3.9 mg/l of manganese in Well N and 9.7 mg/l in Well 13. These concentrations are the highest detected in water samples collected from Blennerhassett Island wells during the present investigation.

2. Possibly some adverse effect on the existing supply wells

LONG-TERM GROUND-WATER SUPPLY OUTLOOK

It has been the LBG experience that the gradual silting of a river bottom can strongly reduce the infiltration rate and cause reductions in the capacities of supply wells dependent on recharge from this infiltration. In the Blennerhassett Island area there are 2 occurrences which have aggravated this situation. First, the construction of the Bellville Dam has probably reduced the average velocity of the Ohio River in this area resulting in the deposition of more fine-grained sediments. In addition, the difference between the level of the ground-water surface and that of the river will tend to hold and more-densely pack the fine sediments on the river bottom.

Experience has also shown that this situation is reversible. Experiments performed by LBG on the Little Miami River near Dayton, Ohio have demonstrated that infiltration can be restored by removing the layer of silt on the river bottom. However, because silting is an ongoing process, periodic scouring will have to be done to maintain a high infiltration rate.

Therefore, it can be expected that high rates of pumping, which will be realized if the additional ground-water developments are made, will be reduced with time unless remedial measures are taken from time to time.

CONCLUSIONS

1. The hydrogeologic data from the 1985 testing program indicated that the upstream half of the Island is favorable for additional water-supply development.

2. The drilling of the 13 test wells indicates the presence of a glacio-fluvial aquifer which overlies a shale or sandstone bedrock. The saturated sediments on the upstream half of the Island range in thickness from 35 to 45 feet.

3. Specific capacity tests concluded that the most productive areas for an additional water supply are located between test wells O and 13 on the main channel and between wells I and K along the back channel.

4. The 3-day pumping test conducted at Well K indicate that the Blennerhassett Island aquifer is highly permeable and hydraulically semi-confined by the aluvial sediments overlying the glacial deposits. The test data indicate that the landward radius of influence by Well K pumping was approximately 800 feet (figure 1).

5. The water quality in most of the upstream wells is within the range considered acceptable as potable water, with the exception of Wells A, F and I which show high concentrations of manganese. High manganese concentrations were also found in all downstream observation wells.

6. The effect of pumping the 9 production wells is limited to the downstream half of the Island. Substantial drawdown measured in downstream observation wells located on both main and back channel indicates that the ground-water resource in this area is fully subscribed.

7. The hydrogeologic investigation on the upstream half of the Island suggests that at least 4500 gpm can be developed in that area and that a minimum of 700 feet spacing should be maintained between adjacent production wells. The data also indicate that to take full advantage of induced infiltration from the river, the wells should be located 100 feet from the river bank.

8. Site 1, located between the Wells M and I on the upstream half of the Island along the back channel, appears to be the most favorable location for water-supply development. It is estimated that as much as 3000 gpm can be developed from this site.

9. Site 2, located in the vicinity of Test Wells O, N and 13, is the most favorable location for immediate water supply needs of Washington Works because of its proximity to the existing pipeline. Approximately 1500 gpm may be obtained from 3 wells located at this site.

10. The gradual silting of the river bottom may further reduce the infiltraiton rate and cause reduction in the capacities of water-supply wells.

RECOMMENDATIONS

1. Site 1 should be considered for the development of major water supply needs. Six production wells should be installed between Wells M and I at 700-foot intervals along the back channel, and at 100 feet from the river bank.

2. Site 2 is the most favorable location for immediate water-supply development. Three production wells should be installed at this site along the main channel of

the Ohio River, at spacing intervals and distances from the Ohio River as recommended for Site 1.

3. The production wells should be drilled and installed by the cable-tool method. Each production well should be completed with a minimum of 10 feet of 12-inch diameter stainless-steel screen and mild steel riser pipe. The well screen should be installed opposite the deepest and most permeable zone of the aquifer.

4. Each production well should be tested for 12 hours at a pumping rate between 300 and 500 gpm. Water samples for chemical analyses should be obtained 1 hour into the test and before the end of the test.

5. A preventive maintenance program should be instituted at each well. The nature of ground water indicates the potential for iron and manganese bacteria growth in the well screen and surrounding sediments. Therefore, it is recommended that a dose of chlorine be applied twice a year at each well site. The chlorination program should be conducted at both new and existing production wells.

6. Periodic scouring of the river bottom should be conducted in the vicinity of the Island in order to maintain a high infiltration rate.

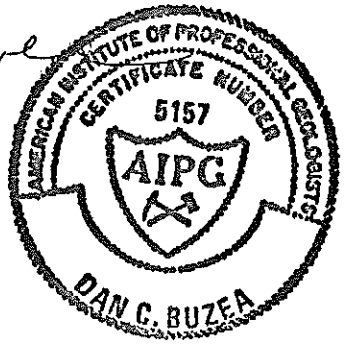
7. An evaluation of the existing production wells should be conducted annually in order to determine the remedial measures for well productivity improvement. A specific capacity test for a pumping rate of 300 gpm should be conducted annually at each well site. If a decrease in specific capacity greater than 50 percent is observed after the silt layer from the river bottom was disturbed, a

variable-rate pumping test should be performed and well efficiency determined. The well efficiency data (well loss and aquifer loss) will indicate if a redevelopment program is required.

LEGGETTE, BRASHEARS & GRAHAM, INC.

Dan C. Buzea

Dan C. Buzea
Associate



G. Sidney Fox

G. Sidney Fox
Executive Vice President

dmt
June 12, 1986
buzea6

A P P E N D I X

WELL LOG

LEGGETTE, BRASHEARS & GRAHAM, INC.

CONSULTING GROUND-WATER GEOLOGISTS
72 DANBURY ROAD
WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. A

DATE 09/27/85 PAGE 1 OF 1 PAGES

LOCATION Site A Blennerhassett Island Parkersburg, West Virginia

DATE COMPLETED September 27, 1985

DRILLING COMPANY Tincher Drilling

DRILLING METHOD Cable tool

SAMPLING METHOD Bailer

SAMPLES EXAMINED BY Michael Susca

REFERENCE POINT Grade

ELEVATION OF R.P. 593.20

WELL CONSTRUCTION
SCREEN TYPE Cook wire-wrapped stainless steel
DIAM. 6-inch SLOT NO. 0.050
SETTING 45 - 55 feet
GRAVEL PACK SIZE None
CASING 8" diameter steel
DEVELOPMENT Airlift pumping and mechanical surging

PUMPING TEST
DATE December 9, 1985
DURATION 3 hours
STATIC WATER LEVEL 10.70 feet
PUMPING WATER LEVEL 23.33 feet
YIELD 140 gpm

REMARKS

DEPTH IN FEET FROM	TO	DESCRIPTION
0	24.5	TOPSOIL: SILT, some clay; occasional gravel; brown.
24.5	36.5	GRAVEL and cobbles; to 2 inches; multicolored; subangular to rounded; little fine to coarse brown sand, orange-brown 35-36.5 feet.
36.5	41	GRAVEL and cobbles; to 4 inches; round to sub-round; some medium to coarse gray to gray-brown sand.
41	43	SAND, fine to coarse; trace of gravel; occasional cobble; orange-brown.
43	45	SAND, fine to coarse; little cobbles; trace of gravel; brown.
45	47	SAND, fine to coarse; trace of gravel; brown to brown-orange.
47	55	SAND, medium to coarse; trace of fine sand; trace of gravel; brown to brown-gray; some cobbles at 48 and 55 feet.
	55	LIMESTONE; clay; silt; medium gray.
	55	End of borehole.

WELL LOG

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WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. B

DATE 10/12/85 PAGE 1 OF 1 PAGES

LOCATION: Site B, Blennerhassett Island, Parkersburg, West Virginia

DATE COMPLETED: October 12, 1985

DRILLING COMPANY: Tincher Drilling

DRILLING METHOD: Cable tool

SAMPLING METHOD: Bailer

SAMPLES EXAMINED BY: R. Tincher

REFERENCE POINT: Grade

ELEVATION OF R.P.: 603.1

WELL CONSTRUCTION SCREEN TYPE: Cook wire-wrapped stainless steel

DIAM. 6-inch SLOT NO. 0.100

SETTING: 50 - 60 feet

GRAVEL PACK SIZE: None

CASING: 8" diameter steel

DEVELOPMENT: Airlift pumping and mechnical surging

PUMPING TEST DATE: December 29, 1985

DURATION: 3 hours

STATIC WATER LEVEL: 21.75 feet

PUMPING WATER LEVEL: 43.49 feet

YIELD: 560 gpm

REMARKS:

DEPTH IN FEET FROM	TO	DESCRIPTION
0	23	TOPSOIL; mixed clay and sand; brown.
23	35	COBBLES; coarse sand; brown.
35	46	GRAVEL; coarse sand; gray.
46	60.5	GRAVEL; clean, coarse sand; gray.
	60.5	End of borehole.
		Prepared from driller's log.

WELL LOG

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WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. C

DATE 10/10/85 PAGE 1 OF 1 PAGES

LOCATION Site C Blennerhassett Island Parkersburg, West Virginia

DATE COMPLETED October 10, 1985

DRILLING COMPANY Tincher Drilling

DRILLING METHOD Cable tool

SAMPLING METHOD Bailer

SAMPLES EXAMINED BY R. Tincher

REFERENCE POINT Grade

ELEVATION OF R.P. 593.3

WELL CONSTRUCTION
SCREEN TYPE Cook wire-wrapped stainless steel

DIAM. 6-inch SLOT NO. 50

SETTING 42 - 52 feet

GRAVEL PACK SIZE None

CASING 8" diameter steel

DEVELOPMENT Airlift pumping and mechanical surging

PUMPING TEST

DATE December 23, 1985

DURATION 4 hours

STATIC WATER LEVEL 11.69 feet

PUMPING WATER LEVEL 36.50 feet

YIELD 330 gpm

REMARKS

DEPTH IN FEET FROM	TO	DESCRIPTION
0	28	TOPSOIL; mixed clay and sand; brown.
28	33	CLAY; mixed with sand; gray.
33	38	GRAVEL; coarse sand; gray.
38	42	COBBLES; iron stained.
42	46	GRAVEL; coarse sand; gray.
46	52.25	GRAVEL; coarse sand; gray.
	52.25	End of borehole.
		Prepared from driller's log.

WELL LOG

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WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. D

DATE 09/30/85 PAGE 1 OF 1 PAGES

LOCATION: Site D, Blennerhassett Island, Parkersburg, West Virginia

DATE COMPLETED: October 1, 1985

DRILLING COMPANY: Tincher Drilling

DRILLING METHOD: Cable tool

SAMPLING METHOD: Bailer

SAMPLES EXAMINED BY: Michael Susca

REFERENCE POINT: Grade

ELEVATION OF R.P.: 593.0

WELL CONSTRUCTION
SCREEN TYPE: Cook wire-wrapped stainless steel
DIAM.: 6-inch SLOT NO.: 80
SETTING: 39 - 49 feet

GRAVEL PACK SIZE: None

CASING: 8" diameter steel

DEVELOPMENT: Airlift pumping and mechanical surging

PUMPING TEST
DATE: December 16, 1985
DURATION: 3 hours

STATIC WATER LEVEL: 8.52 feet

PUMPING WATER LEVEL: 30.88 feet

YIELD: 285 gpm

REMARKS:

DEPTH IN FEET FROM	TO	DESCRIPTION
0	25	TOPSOIL: SILT and clay; red-brown.
25	30	SAND, very fine; some clay and silt; brown-red.
30	34	COBBLES, gravel and fine sand; brown.
34	37	SAND, fine to coarse; some gravel; some cobbles up to 5 inches; brown to brown-gray; orange streak at 34 feet; wood; streak of gray-brown clay with some silt and very fine sand at 37 feet.
37	39.5	GRAVEL and sand, fine to coarse; some cobbles; brown; orange staining on cobbles; orange sand-sized nodules; thin lens of fine to medium gray-brown sand at top.
39.5	42	SAND, medium to coarse; some gravel; some cobbles; brown.
42	49.5	SAND, medium to coarse and gravel; some cobbles to 5 inches; brown to gray-brown.
	49.5	SHALE; some sand; mica; medium gray.
	49.5	End of borehole.

WELL LOG

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CONSULTING GROUND-WATER GEOLOGISTS
72 DANBURY ROAD
WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. E

DATE 10/09/85 PAGE 1 OF 1 PAGES

LOCATION Site E Blennerhassett Island Parkersburg, West Virginia

DATE COMPLETED October 9, 1985

DRILLING COMPANY Tincher Drilling

DRILLING METHOD Cable tool

SAMPLING METHOD Bailer

SAMPLES EXAMINED BY R. Tincher

REFERENCE POINT Grade

ELEVATION OF R.P. 593.3

WELL CONSTRUCTION
SCREEN TYPE Cook wire-wrapped stainless steel

DIAM. 6-inch SLOT NO. 100

SETTING 40 - 50 feet

GRAVEL PACK SIZE None

CASING 8" diameter steel

DEVELOPMENT Airlift pumping and mechanical surging

PUMPING TEST

DATE December 21, 1985

DURATION 4 hours

STATIC WATER LEVEL 11.36 feet

PUMPING WATER LEVEL 37.15 feet

YIELD 240 gpm

REMARKS

DEPTH IN FEET FROM	TO	DESCRIPTION
0	23.5	TOPSOIL; mixed clay and sand; brown.
23.5	34	COBBLES; coarse sand; brown.
34	40	GRAVEL; coarse sand.
40	50	GRAVEL; clean, coarse sand.
	50	End of borehole.
		Prepared from driller's log.

WELL LOG

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WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. F

DATE 10/02/85 PAGE 1 OF 1 PAGES

LOCATION: Site F Blennerhassett Island Parkersburg, West Virginia

DATE COMPLETED: October 3, 1985

DRILLING COMPANY: Tincher Drilling

DRILLING METHOD: Cable tool

SAMPLING METHOD: Bailer

SAMPLES EXAMINED BY: Michael Susca

REFERENCE POINT: Grade

ELEVATION OF R.P.: 599.5

WELL CONSTRUCTION: SCREEN TYPE: Cook wire-wrapped stainless steel; DIAM.: 6-inch; SLOT NO.: 80; SETTING: 45 - 55 feet

GRAVEL PACK SIZE: None

CASING: 8" diameter steel

DEVELOPMENT: Airlift pumping and mechanical surging

PUMPING TEST: DATE: December 28, 1985; DURATION: 2 hours; STATIC WATER LEVEL: 18.09 feet; PUMPING WATER LEVEL: 41.26 feet; YIELD: 300 gpm

REMARKS:

DEPTH IN FEET FROM	TO	DESCRIPTION
0	24	TOPSOIL: CLAY and silt; trace of very fine sand; mica; less sand at depth.
24	36	SILT and Clay; trace of very fine sand; gray; mica; sandy lens at 35 feet; laminated with brown, white specks, wood near bottom.
36	44	SAND, medium to coarse; and round to subround cobbles up to 3 inches; some gravel; trace of fine sand; iron-colored, sand-sized nodules below 39 feet.
44	48	SAND, fine to coarse; and gravel; and cobbles up to 5 inches; brown-gray; large rocks at 47 feet.
48	55.5	SAND, medium to coarse; and gravel; and cobbles; gray to brown-gray.
55.5	63.5	SAND, fine to coarse; little gravel; yellow; trace yellow clay (cement); produces water below 59 feet; more clay at 62 feet.
63.5	67	SANDSTONE; little (lime?) clay; mica; medium gray; some clay and sand (weathered rock?).
	67	End of borehole.
		NOTE: Casing set to 56.5 feet. Open hole to 67 feet.

WELL LOG

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WELL NO. I

DATE 10/08/85 PAGE 1 OF 1 PAGES

LOCATION: Site I, Blennerhassett Island, Parkersburg, West Virginia

DATE COMPLETED: October 8, 1985

DRILLING COMPANY: Tincher Drilling

DRILLING METHOD: Cable tool

SAMPLING METHOD: Bailer

SAMPLES EXAMINED BY: R. Tincher

REFERENCE POINT: Grade

ELEVATION OF R.P.: 591.7

WELL CONSTRUCTION
SCREEN TYPE: Cook wire-wrapped stainless steel
DIAM. 6-inch SLOT NO. 100
SETTING: 39 - 49 feet
GRAVEL PACK SIZE: None
CASING: 8" diameter steel
DEVELOPMENT: Airlift pumping and mechanical surging

PUMPING TEST
DATE: December 31, 1985
DURATION: Approximately 4 hours
STATIC WATER LEVEL: 10.46 feet
PUMPING WATER LEVEL: 26.60
YIELD: 700 gpm

REMARKS:

DEPTH IN FEET FROM	DEPTH IN FEET TO	DESCRIPTION
0	16	TOPSOIL; mixed clay and sand; brown.
16	19	SILT; fine; brown.
19	23	CLAY; mixed with sand; gray.
23	30	COBBLES; coarse sand; brown.
30	40	GRAVEL; probably to 4 inches; coarse sand.
40	49.5	SAND; coarse, clean; gravel to 0.25 inch.
	49.5	End of borehole.
		Prepared from driller's log.

WELL LOG

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WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. J

DATE 10/05/85 PAGE 1 OF 1 PAGES

LOCATION: Site J, Blennerhassett Island, Parkersburg, West Virginia

DATE COMPLETED: October 5, 1985

DRILLING COMPANY: Tincher Drilling

DRILLING METHOD: Cable tool

SAMPLING METHOD: Bailer

SAMPLES EXAMINED BY: R. Tincher

REFERENCE POINT: Grade

ELEVATION OF R.P.: 589.9

WELL CONSTRUCTION
SCREEN TYPE: Cook wire-wrapped stainless steel
DIAM.: 6-inch SLOT NO.: 100
SETTING: 38 - 48 feet
GRAVEL PACK SIZE: None
CASING: 8" diameter steel
DEVELOPMENT: Airlift pumping and mechanical surging

PUMPING TEST
DATE: December 10, 1985
DURATION: 4 hours
STATIC WATER LEVEL: 6.95 feet
PUMPING WATER LEVEL: 32.93 feet
YIELD: 550 gpm

REMARKS:

DEPTH IN FEET FROM	TO	DESCRIPTION
0	12	TOPSOIL; mixed clay and sand; brown.
12	22	SILT, clay and sand; brown.
22	30	COBBLES; sand; gray.
30	35	COBBLES; sand; iron stained.
35	40	SAND, coarse, clean; gravel; brown.
40	48	SAND, coarse, clean; gravel; gray.
	48	End of borehole.
		Prepared from driller's log.

WELL LOG

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CONSULTING GROUND-WATER GEOLOGISTS

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WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. K

DATE 10/04/85 PAGE 1 OF 1 PAGES

LOCATION: Site K, Blennerhassett Island, Parkersburg, West Virginia

DATE COMPLETED: October 4, 1985

DRILLING COMPANY: Tincher Drilling

DRILLING METHOD: Cable tool

SAMPLING METHOD: Bailer

SAMPLES EXAMINED BY: Michael Susca

REFERENCE POINT: Grade

ELEVATION OF R.P.: 590.8

WELL CONSTRUCTION: SCREEN TYPE: Cook wire-wrapped stainless steel; DIAM.: 6-inch; SLOT NO.: 100; SETTING: 38 - 48 feet

GRAVEL PACK SIZE: None

CASING: 8" diameter steel

DEVELOPMENT: Airlift pumping and mechanical surging

PUMPING TEST: DATE: December 11, 1985; DURATION: 2 hours; STATIC WATER LEVEL: 8.33 feet; PUMPING WATER LEVEL: 31.71 feet; YIELD: 395 - 535 gpm

REMARKS:

DEPTH IN FEET FROM	DEPTH IN FEET TO	DESCRIPTION
0	25	TOPSOIL: CLAY and silt; brown.
20	25	SAND, fine to very fine; some clay; little silt; trace of gravel; brown.
25	33	COBBLES and gravel; some fine to coarse sand; brown; some orange staining at 32 feet.
33	48.5	SAND, fine to coarse; and gravel; some cobbles; brown-gray; more dark brown below 40 feet; (possibly a thin layer of fine to coarse yellow sand at the bottom).
48.5	52	SANDSTONE; fine to medium; trace of clay; yellow-gray; more light gray with depth; hard.
	52	End of borehole.

WELL LOG

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CONSULTING GROUND-WATER GEOLOGISTS

72 DANBURY ROAD

WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. L

DATE 10/07/85 PAGE 1 OF 1 PAGES

LOCATION Site L Blennerhassett Island Parkersburg, West Virginia

DATE COMPLETED October 7, 1985

DRILLING COMPANY Tincher Drilling

DRILLING METHOD Cable tool

SAMPLING METHOD Bailer

SAMPLES EXAMINED BY R. Tincher

REFERENCE POINT Grade

ELEVATION OF R.P. 589.4

WELL CONSTRUCTION SCREEN TYPE Cook wire-wrapped stainless steel

DIAM. 6-inch SLOT NO. 50

SETTING 38 - 48 feet

GRAVEL PACK SIZE None

CASING 8" diameter steel

DEVELOPMENT Airlift pumping and mechanical surging

PUMPING TEST

DATE December 13, 1985

DURATION 2 hours

STATIC WATER LEVEL 2.42 feet

PUMPING WATER LEVEL 30.18 feet

YIELD 325 - 335 gpm

REMARKS

DEPTH IN FEET FROM	TO	DESCRIPTION
0	10	TOPSOIL; mixed clay and sand; brown.
10	22	SAND; fine silt; brown.
22	35	COBBLES; sand; brown.
35	42	GRAVEL; probably up to 4 inches; coarse sand; gray.
42	50.5	GRAVEL; sand, coarse; gray.
	50.5	End of borehole.
		Prepared from driller's log.

WELL LOG

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CONSULTING GROUND-WATER GEOLOGISTS
72 DANBURY ROAD
WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. M

DATE 10/11/85 PAGE 1 OF 1 PAGES

LOCATION Site M Blennerhassett Island Parkersburg, West Virginia

DATE COMPLETED October 11, 1985

DRILLING COMPANY Tincher Drilling

DRILLING METHOD Cable tool

SAMPLING METHOD Bailer

SAMPLES EXAMINED BY R. Tincher

REFERENCE POINT Grade

ELEVATION OF R.P. 603.50

WELL CONSTRUCTION SCREEN TYPE Cook wire-wrapped stainless steel

DIAM. 6-inch SLOT NO. 50

SETTING 53 - 63 feet

GRAVEL PACK SIZE None

CASING 8" diameter steel

DEVELOPMENT Airlift pumping and mechanical surging

PUMPING TEST

DATE December 30, 1985

DURATION 2 hours

STATIC WATER LEVEL 20.67 feet

PUMPING WATER LEVEL 45.67 feet

YIELD 335 - 410 gpm

REMARKS

DEPTH IN FEET FROM	DEPTH IN FEET TO	DESCRIPTION
0	22	TOPSOIL; mixed clay and sand; brown.
23	37	CLAY; some sand; gray.
37	47	COBBLES; sand, coarse.
47	63.6	GRAVEL; probably to 4 inches; coarse sand; gray.
	63.6	End of borehole.
		Prepared from driller's log.

WELL LOG

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72 DANBURY ROAD
WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. N

DATE 10/13/85 PAGE 1 OF 1 PAGES

LOCATION: Site N, Blennerhassett Island, Parkersburg, West Virginia

DATE COMPLETED: October 13, 1985

DRILLING COMPANY: Tincher Drilling

DRILLING METHOD: Cable tool

SAMPLING METHOD: Bailer

SAMPLES EXAMINED BY: R. Tincher

REFERENCE POINT: Grade

ELEVATION OF R.P.: 586.2

WELL CONSTRUCTION SCREEN TYPE: Cook wire-wrapped stainless steel

DIAM. 6-inch SLOT NO. 80

SETTING: 33 - 43 feet

GRAVEL PACK SIZE: None

CASING: 8" diameter steel

DEVELOPMENT: Airlift pumping and mechanical surging

PUMPING TEST

DATE: November 1, 1985

DURATION: 4.04 feet

STATIC WATER LEVEL: 23.63 feet

PUMPING WATER LEVEL: 250 - 650 gpm

YIELD:

REMARKS:

DEPTH IN FEET FROM	DEPTH IN FEET TO	DESCRIPTION
0	8	TOPSOIL; mixed clay and sand; brown.
8	14.5	CLAY; some sand; gray.
14.5	30	COBBLES; sand, fine to coarse grained; brown.
30	35	GRAVEL; probably up to 4 inches; coarse sand; gray.
35	43.2	SAND; coarse; gravel.
	43.2	End of borehole.
		Prepared from driller's log.

WELL LOG

LEGGETTE, BRASHEARS & GRAHAM, INC.

CONSULTING GROUND-WATER GEOLOGISTS

72 DANBURY ROAD

WILTON, CT. 06897

OWNER E. I. du Pont de Nemours & Company, Inc. Washington Works

WELL NO. O

DATE 09/25/85 PAGE 1 OF 1 PAGES

LOCATION Site O Blennerhassett Island Parkersburg, West Virginia

DATE COMPLETED September 26, 1985

DRILLING COMPANY Tincher Drilling

DRILLING METHOD Cable tool

SAMPLING METHOD Bailer

SAMPLES EXAMINED BY Michael Susca

REFERENCE POINT Grade

ELEVATION OF R.P. 599.80

WELL CONSTRUCTION SCREEN TYPE Cook wire-wrapped stainless steel

DIAM. 6-inch SLOT NO. 80

SETTING 48 - 58 feet

GRAVEL PACK SIZE None

CASING 8" diameter steel

DEVELOPMENT Airlift pumping and mechanical surging

PUMPING TEST

DATE November 25, 1985

DURATION Approximately 5 hours

STATIC WATER LEVEL 17.58 feet

PUMPING WATER LEVEL 29.34 feet

YIELD 500 gpm

REMARKS

DEPTH IN FEET FROM	TO	DESCRIPTION
0	33.5	TOPSOIL: CLAY; trace of silt; brown-red; plastic; lens of gray-brown silt.
33.5	38.5	COBBLES; rounded to angular; multicolored; gravel; some fine to coarse brown sand.
38.5	53	COBBLES and gravel; rounded to angular; some medium to coarse brown sand; orange-brown, heavy iron staining 40-41, 42-47, 52-53 feet.
53	54	SAND, fine to coarse; and gravel; some cobbles; brown.
54	55	SAND, fine to coarse; some fine to medium gravel; brown.
55	58	COBBLES; and fine to coarse brown sand; some gravel.
	58	SHALE; some sand; lime; mica; medium gray.
	58	End of borehole.

LEGGETTE, BRASHEARS & GRAHAM, INC.
CONSULTING GROUND-WATER GEOLOGISTS
72 Danbury Road
Wilton, CT. 06897

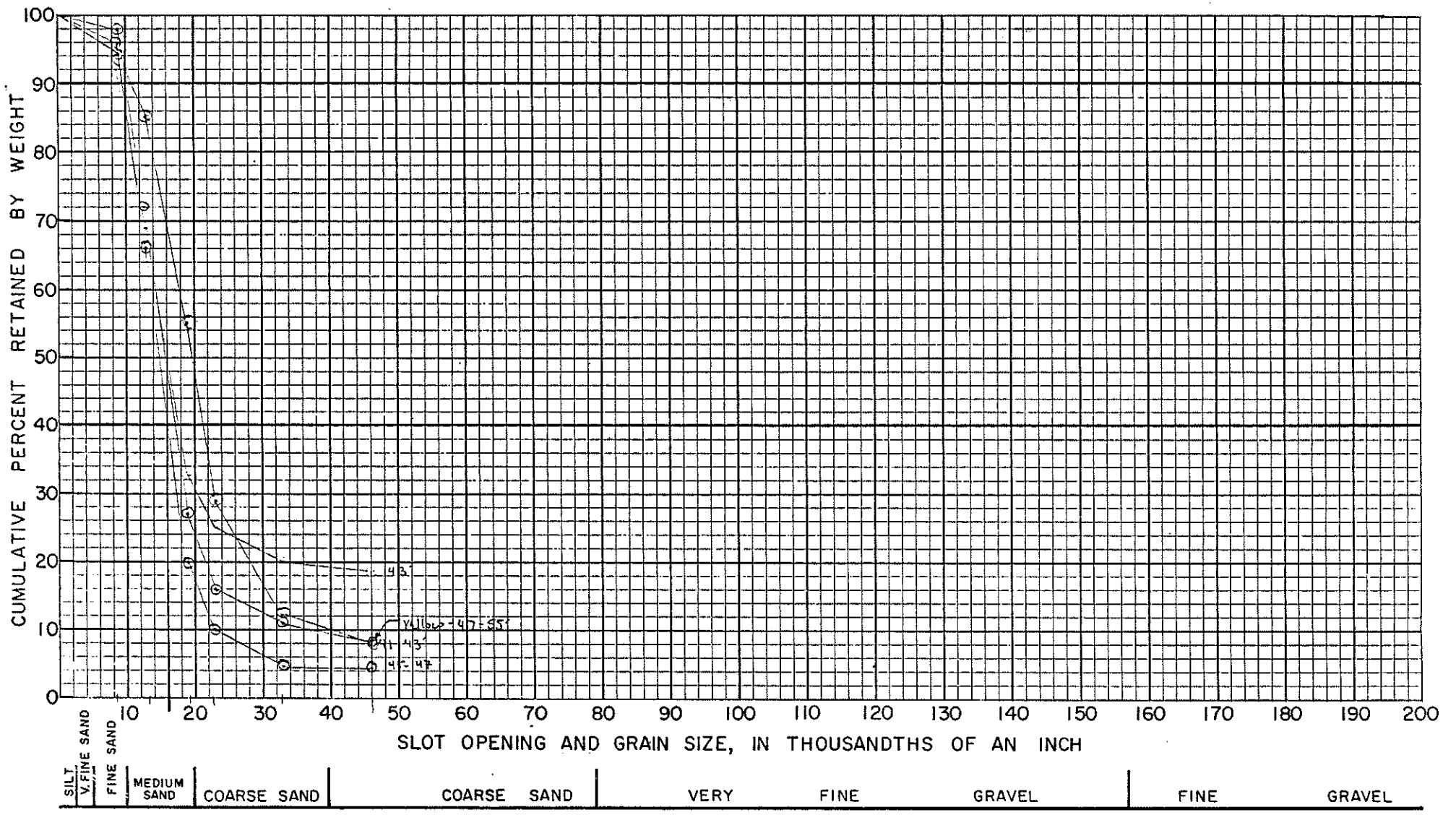
Sh... of

Client DuPont / B. Island Date 10-2-85

Well TW-A

Location Blennerhasset

Sample Depth 41' - 55'



TW

WELL STRAINER CORP.

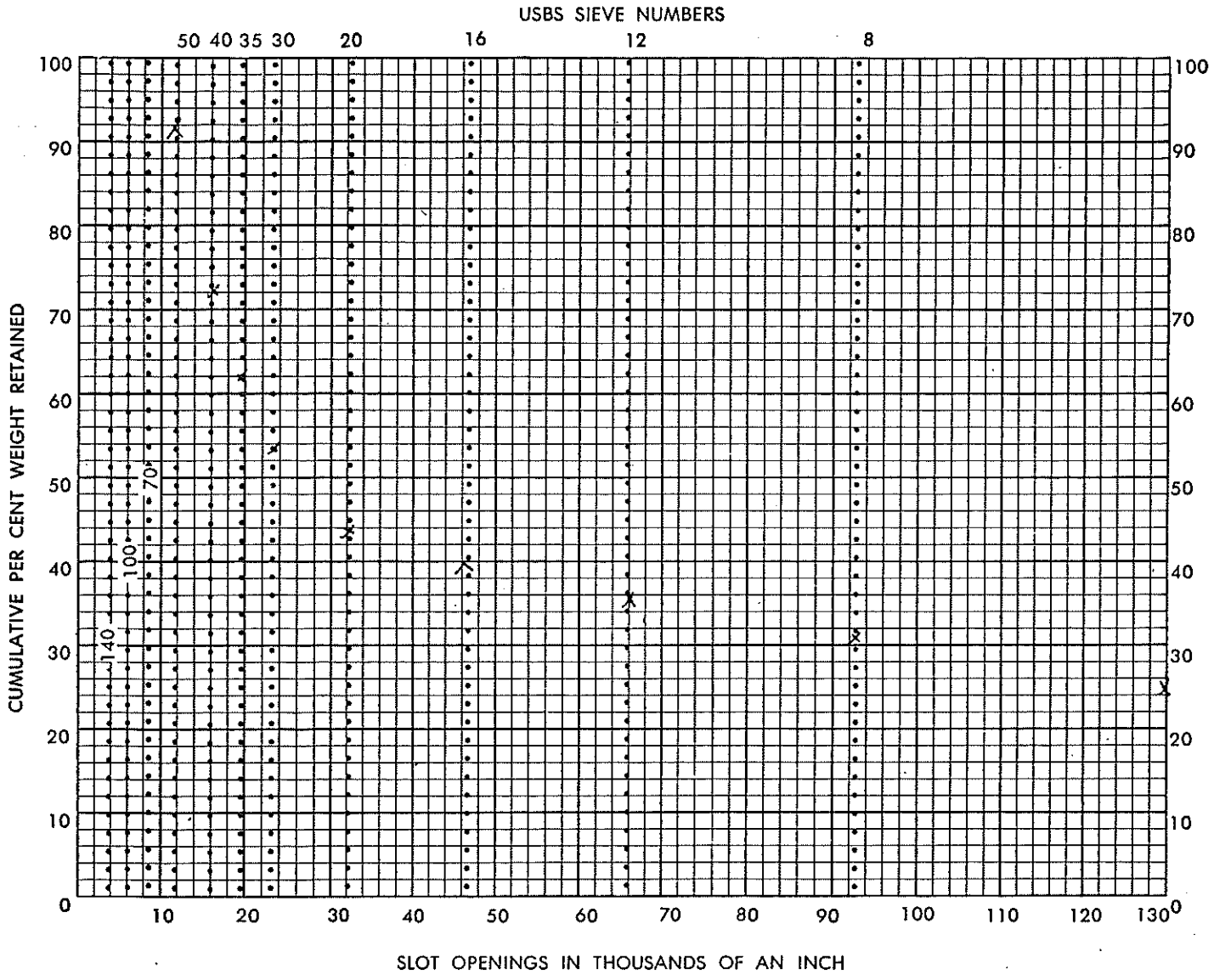
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 46 to 51

Well Designation: B

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: 015

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	90	25
8	.0937	2.36	113	31
12	.0661	1.70	129	35
16	.0469	1.18	146	40
20	.0331	0.85	162	44
30	.0234	0.60	197	54
35	.0197	0.50	228	62
40	.0165	.425	267	72
50	.0117	.300	337	92
70	.0083	.212	357	97
100	.0059	.150	365	—
140	.0041	.106	366	—
	PAN		365	100

WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

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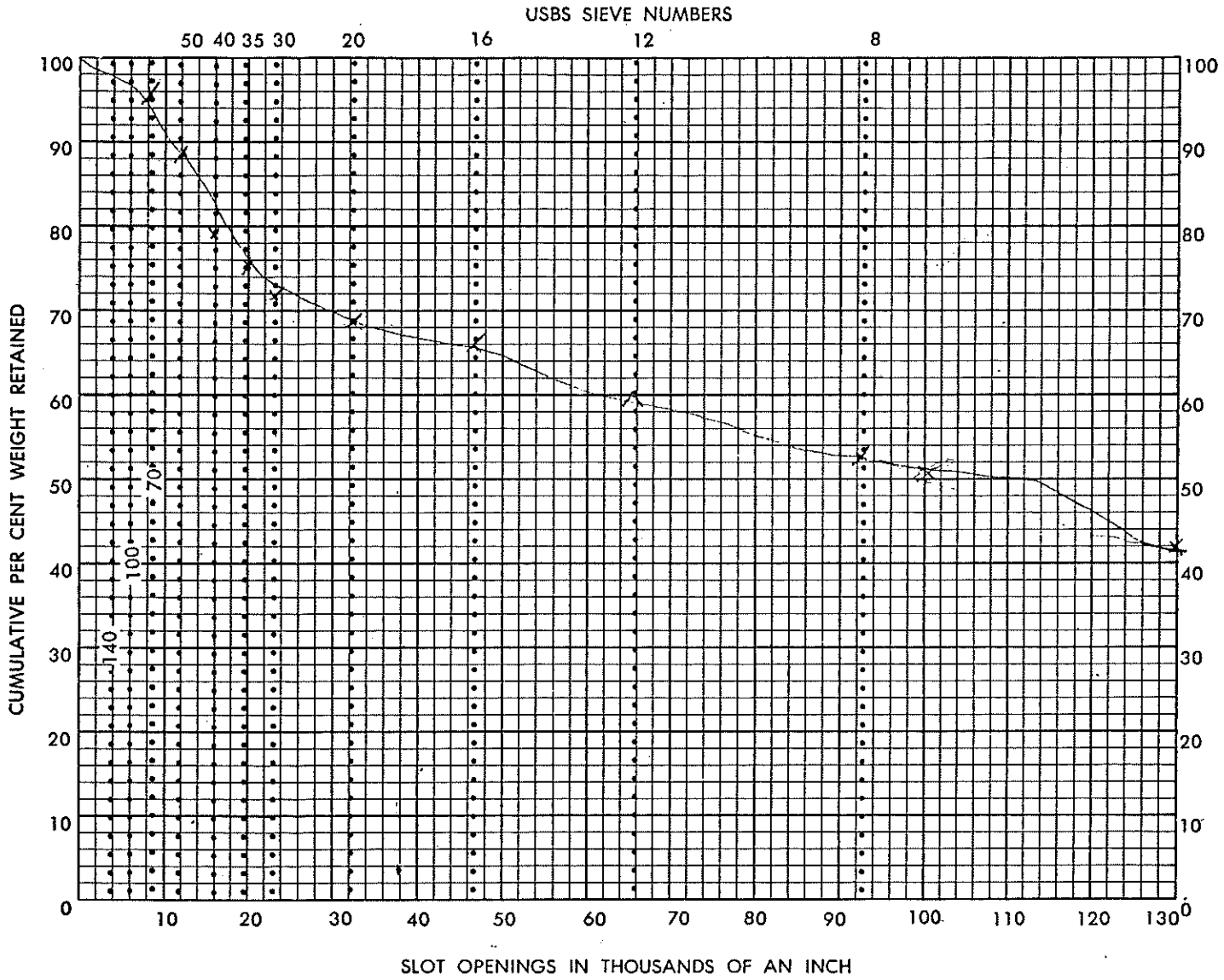
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 51 to 56

Well Designation: B

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: .010

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	155	17
8	.0937	2.36	194	53
12	.0661	1.70	280	60
16	.0469	1.18	339	65
20	.0331	0.85	354	69
30	.0234	0.60	369	72
35	.0197	0.50	384	75
40	.0165	.425	393	79
50	.0117	.300	328	85
70	.0083	.212	355	96
100	.0059	.150	365	99
140	.0041	.106	367	--
	PAN		369	100

WELL STRAINER CORP.

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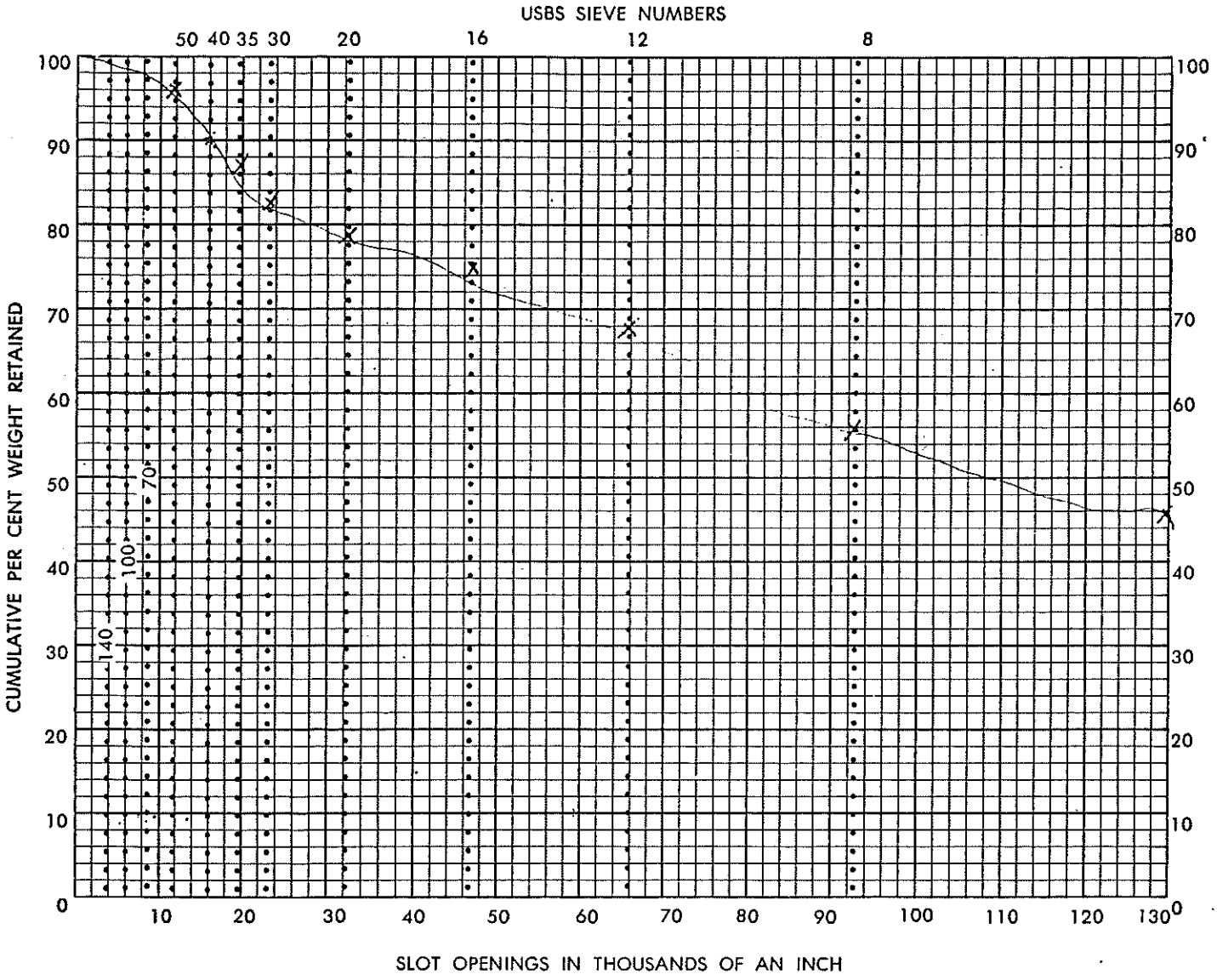
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 56 to 61.5

Well Designation: B

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: .100

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	224	41
8	.0937	2.36	273	56
12	.0661	1.70	309	68
16	.0469	1.18	365	75
20	.0331	0.85	385	79
30	.0234	0.60	405	83
35	.0197	0.50	420	87
40	.0165	.425	436	90
50	.0117	.300	466	96
70	.0083	.212	480	99
100	.0059	.150	482	–
140	.0041	.106	–	–
	PAN		485	100

FORM 800

WELL STRAINER CORP.

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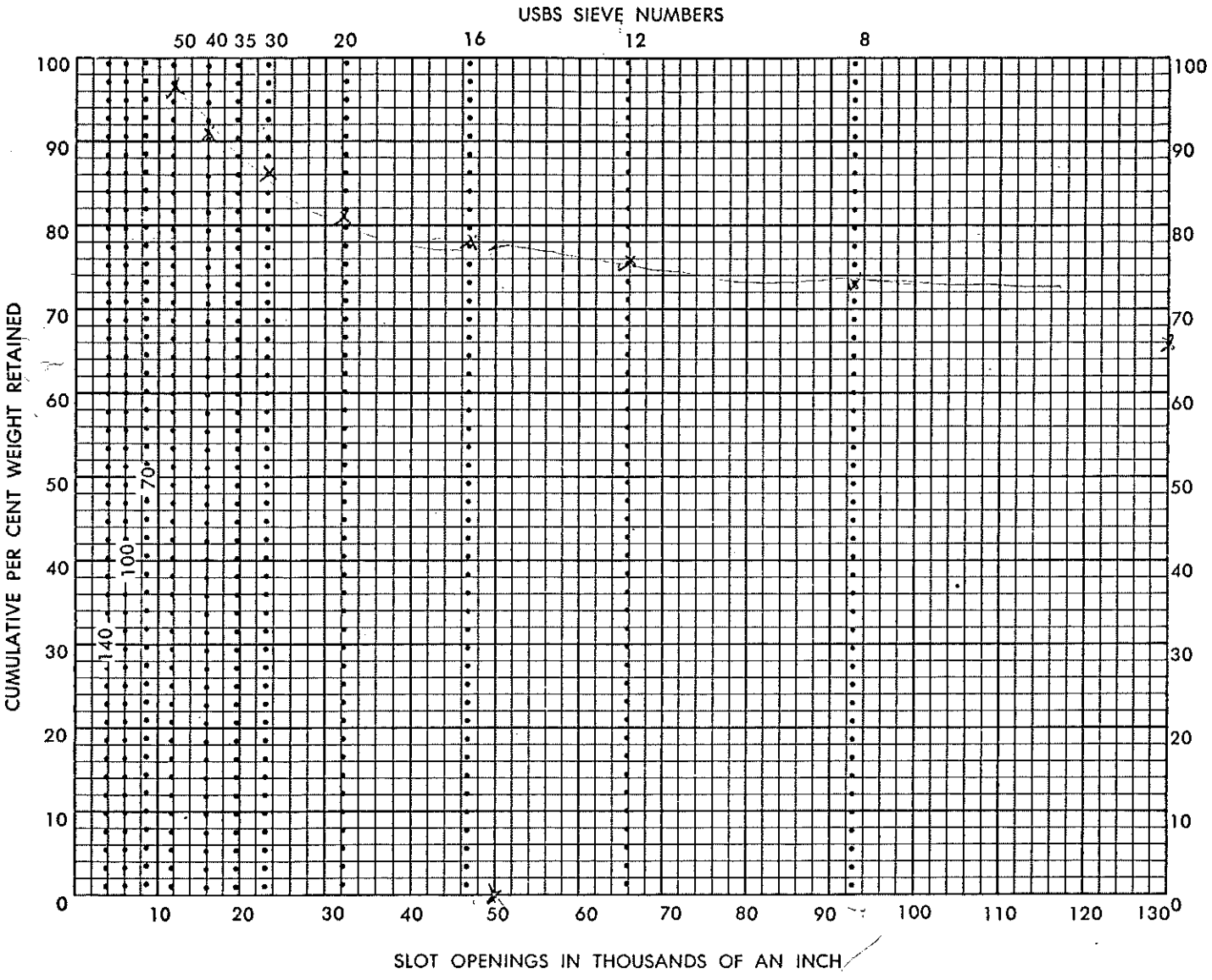
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 42 to 45

Well Designation: C

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	310	54 68
8	.0937	2.36	332	60 73
12	.0661	1.70	345	63 76
16	.0469	1.18	354	64 78
20	.0331	0.85	368	69 81
30	.0234	0.60	385	70 85
35	.0197	0.50	394	71 87
40	.0165	.425	411	75 91
50	.0117	.300	425	78 94
70	.0083	.212	440	81 96
100	.0059	.150	449	—
140	.0041	.106	451	—
	PAN		457	100

WELL STRAINER CORP.

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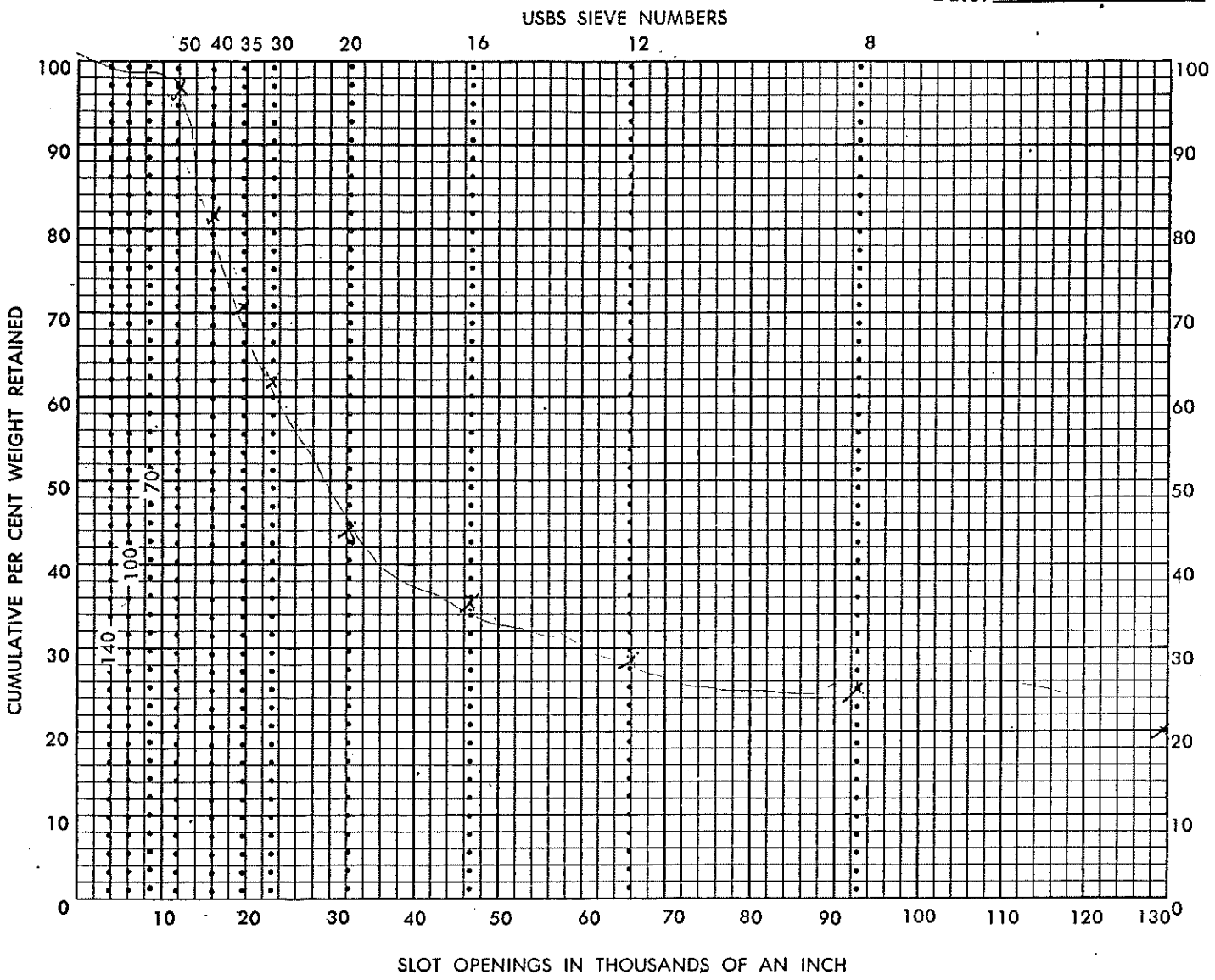
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 46 to 51

Well Designation: C

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	98	20
8	.0937	2.36	122	25
12	.0661	1.70	145	29
16	.0469	1.18	173	35
20	.0331	0.85	217	44
30	.0234	0.60	305	62
35	.0197	0.50	350	71
40	.0165	.425	401	82
50	.0117	.300	477	97
70	.0083	.212	486	99
100	.0059	.150	488	
140	.0041	.106	490	
	PAN		492	100

WELL STRAINER CORP.

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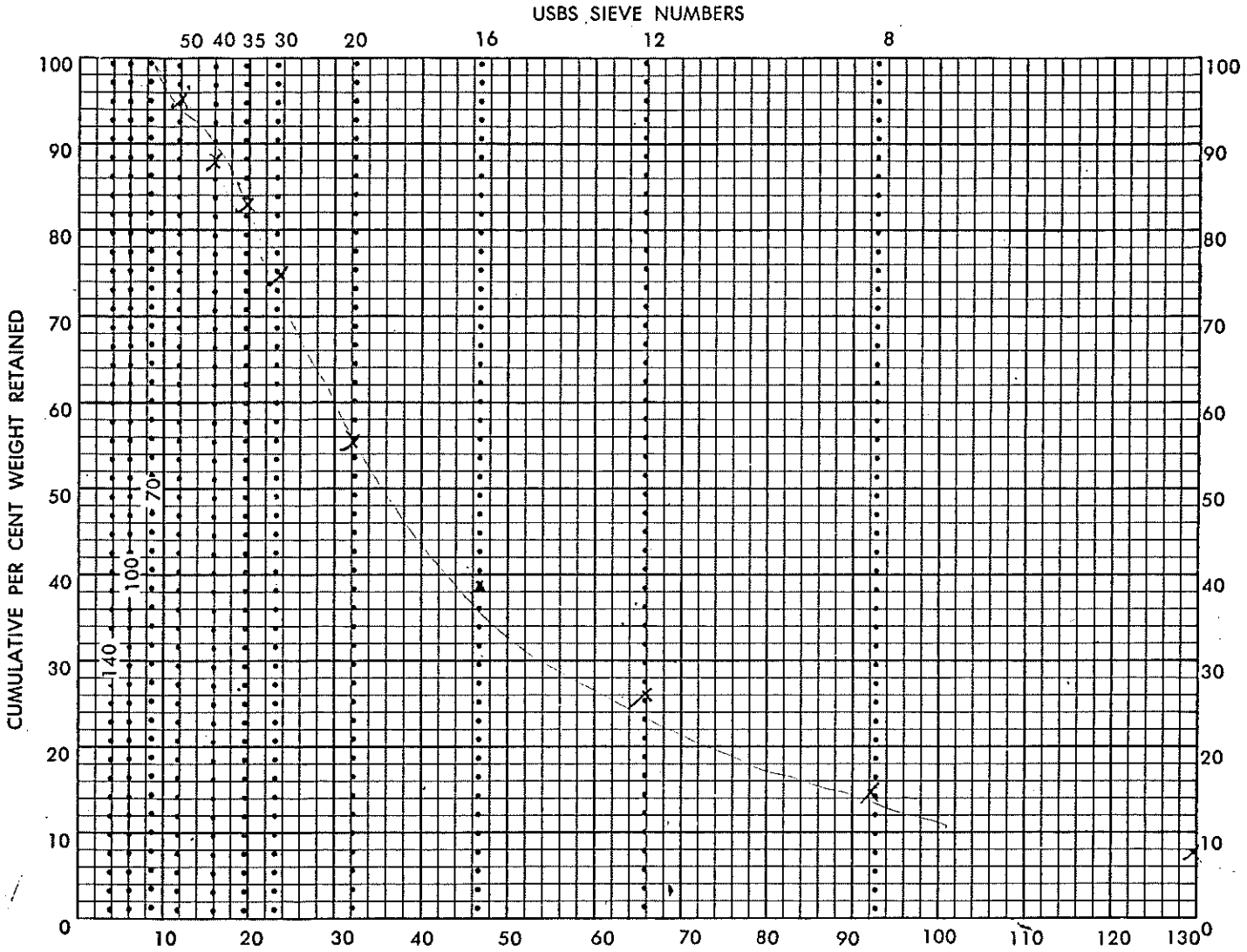
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 51 to 52.3"

Well Designation: C

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	47	7
8	.0937	2.36	96	15
12	.0661	1.70	143	26
16	.0469	1.18	220	35
20	.0331	0.85	311	56
30	.0234	0.60	417	75
35	.0197	0.50	460	83
40	.0165	.425	493	85
50	.0117	.300	531	96
70	.0083	.212	543	98
100	.0059	.150	549	99
140	.0041	.106	553	—
	PAN		556	100

FORM 800

LEGGETTE, BRASHEARS & GRAHAM, INC.
CONSULTING GROUND-WATER GEOLOGISTS
72 Danbury Road
Wilton, CT. 06897

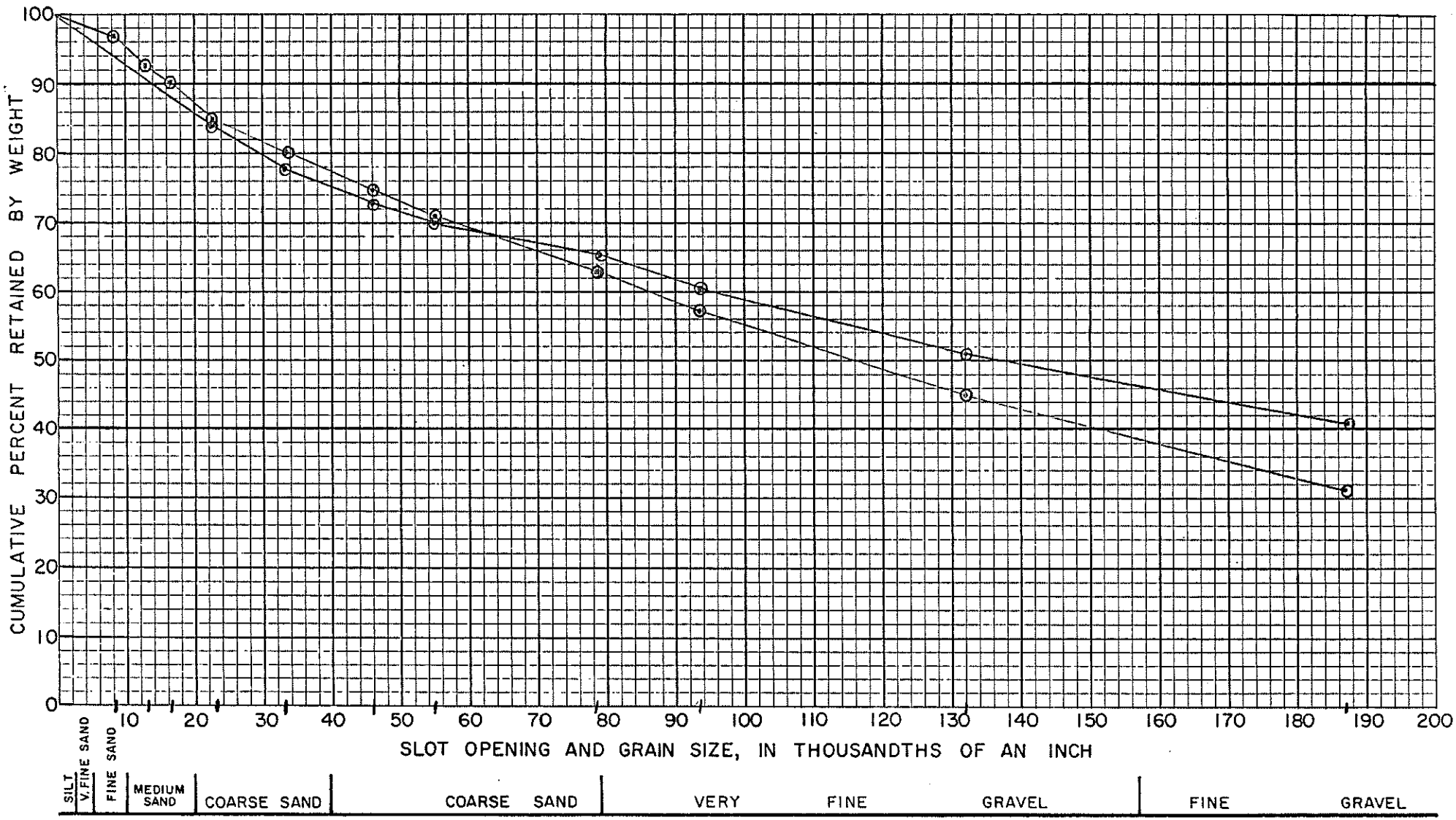
Sheet 1 of

Client DUPONT / B-ISLAND Date 10/15/85

Well TW-D

Location B-HASSET ISLAND

Sample Depth 39 ½ - 420 42 - 49 ½ 0



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CONSULTING GROUND-WATER GEOLOGISTS
72 Danbury Road
Wilton, CT. 06897

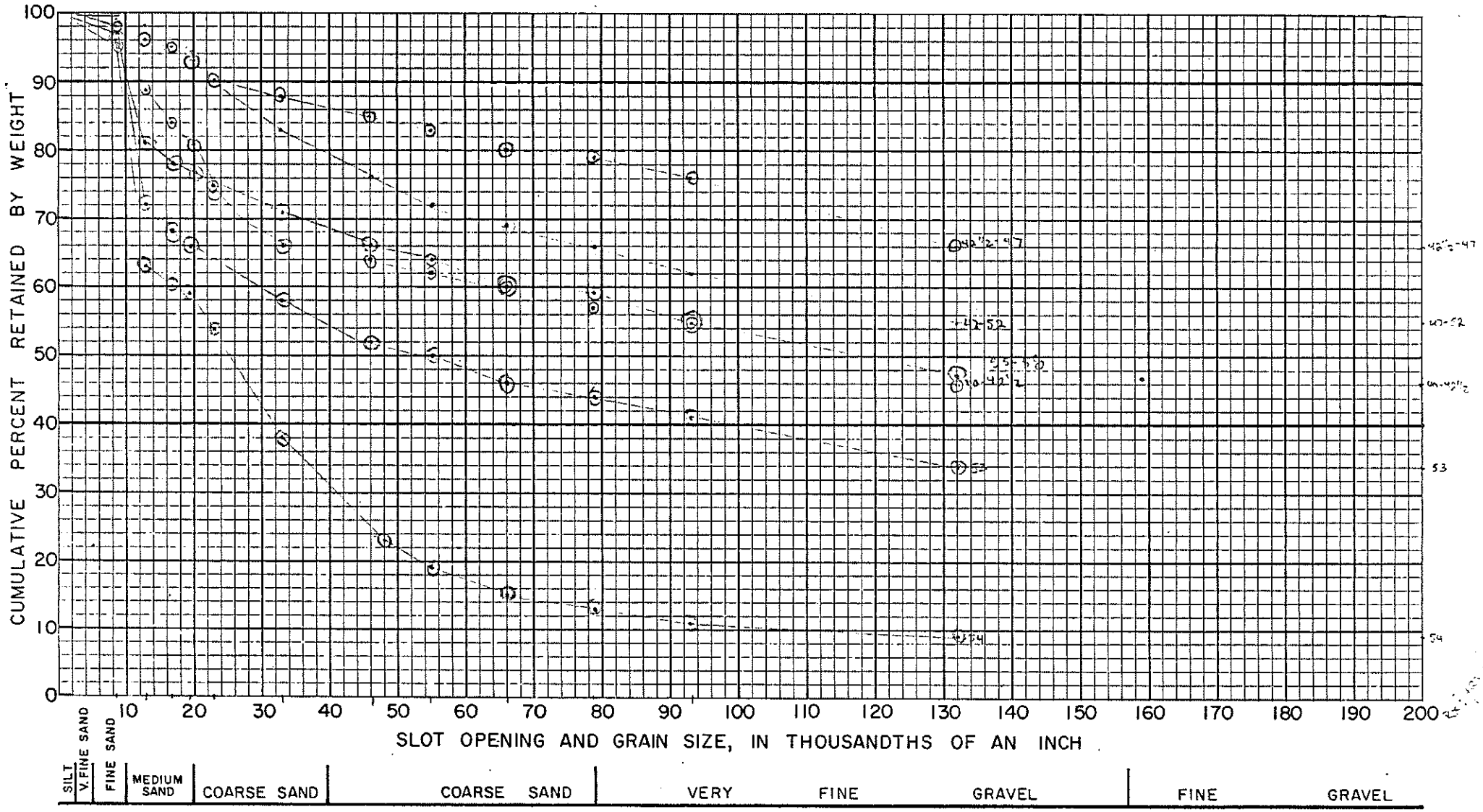
Sheet 1 of

Client DUPONT / B-ISLAND Date 10-2-85

Well TW-D

Location BISSNER HASSET IS.

Sample Depth 40-58'



TW

WELL STRAINER CORP.

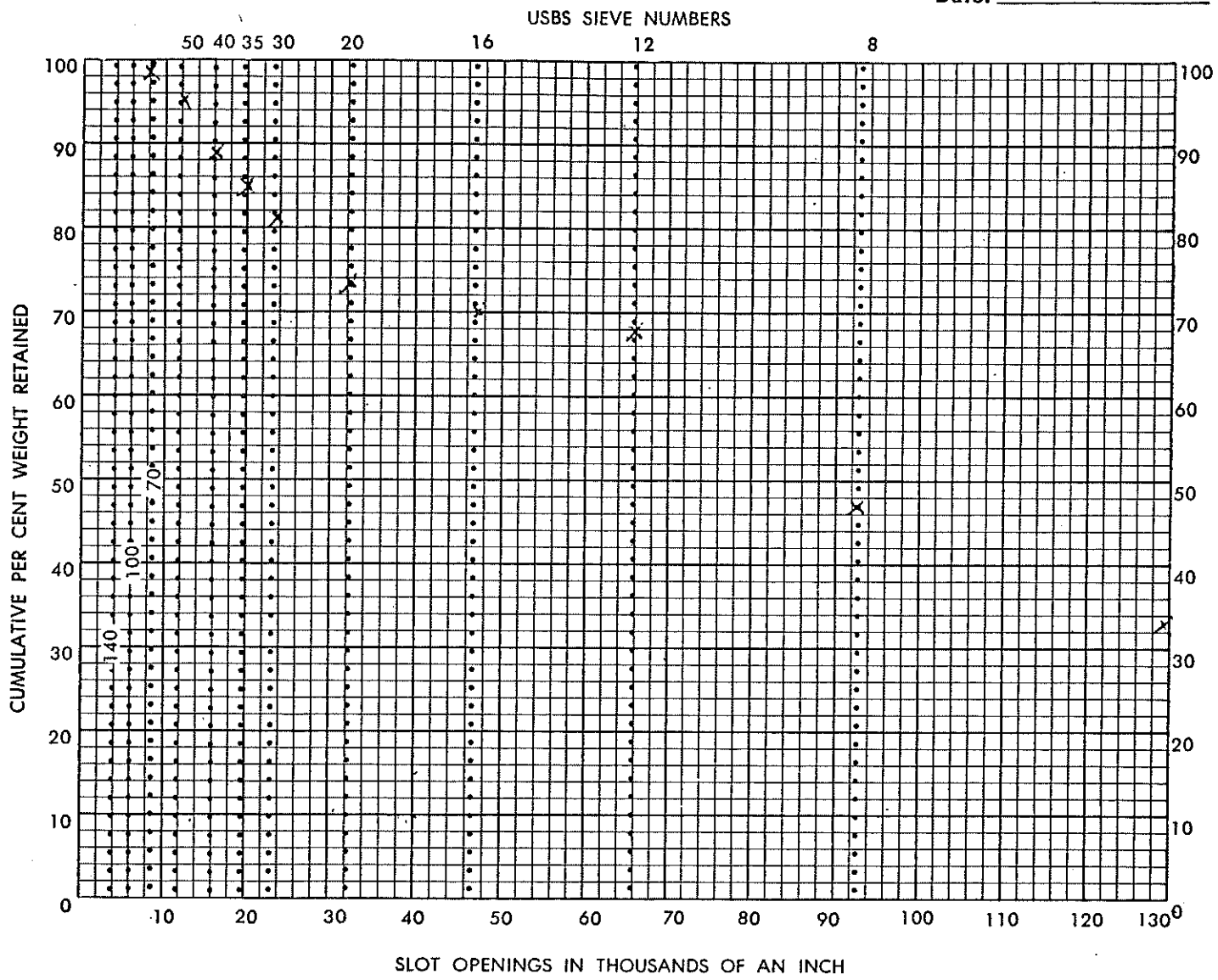
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 40 to 45

Well Designation: E

Sample received from: _____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. Static Level _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	190	33
8	.0937	2.36	273	47
12	.0661	1.70	392	68
16	.0469	1.18	~~428~~ 392	70
20	.0331	0.85	~~467~~ 428	74
30	.0234	0.60	~~467~~ 469	81
35	.0197	0.50	~~490~~ 488	85
40	.0165	.425	~~544~~ 510	88
50	.0117	.300	~~565~~ 542	95
70	.0083	.212	~~572~~ 565	98
100	.0059	.150	572	99
140	.0041	.106	[illegible]	-
	PAN		575	100

FORM 600

WELL STRAINER CORP.

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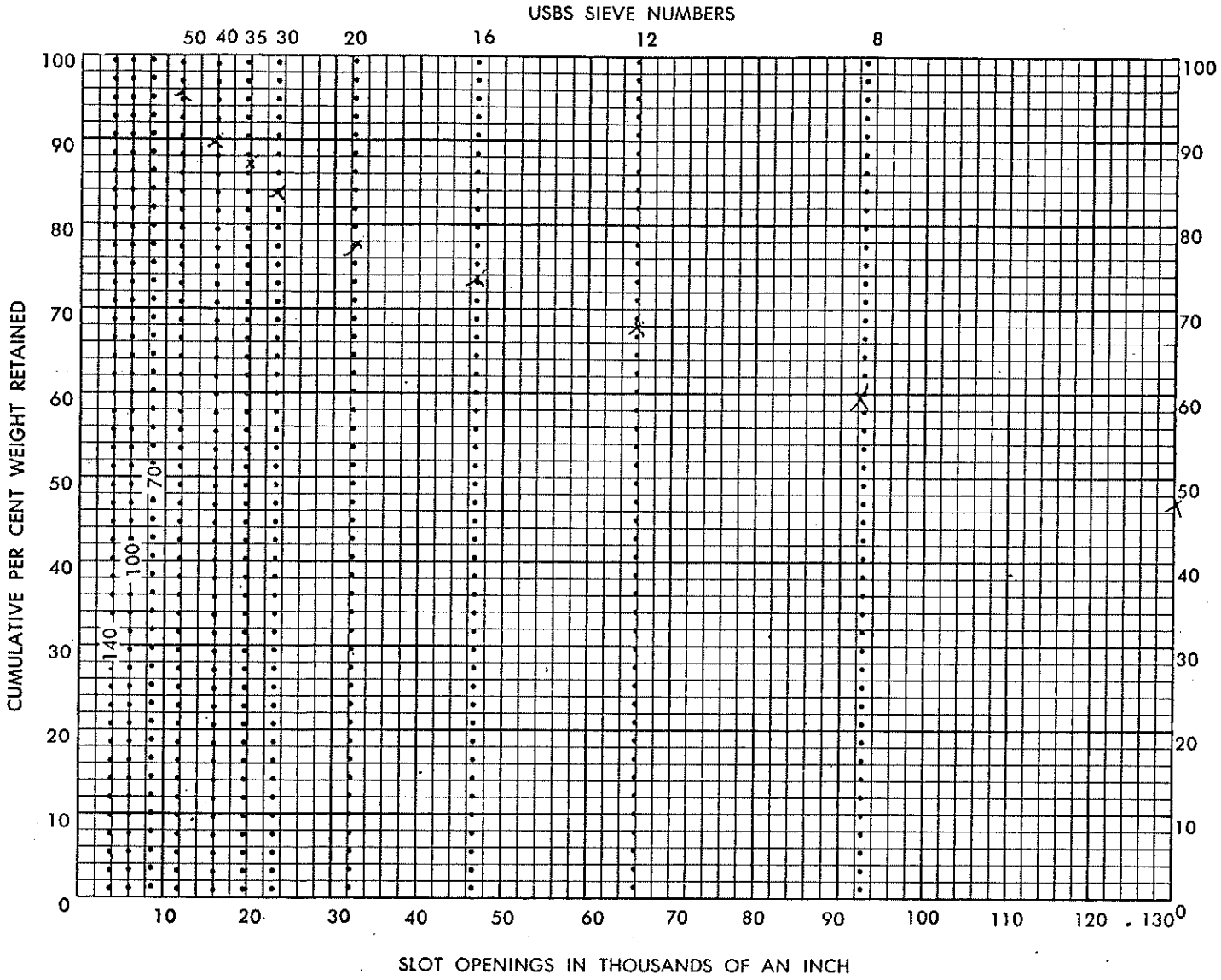
Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 45 to 50

Well Designation: E

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	331	4.7
8	.0937	2.36	480	6.0
12	.0661	1.70	520	6.8
16	.0469	1.18	547	7.4
20	.0331	0.85	567	7.7
30	.0234	0.60	592	8.1
35	.0197	0.50	606	8.7
40	.0165	.425	624	9.0
50	.0117	.300	649	9.4
70	.0083	.212	657	9.7
100	.0059	.150	663	9.9
140	.0041	.106	666	
	PAN		667	10.1

FORM 800

LEGGETTE, BRASHEARS & GRAHAM, INC.
CONSULTING GROUND-WATER GEOLOGISTS
72 Danbury Road
Wilton, CT. 06897

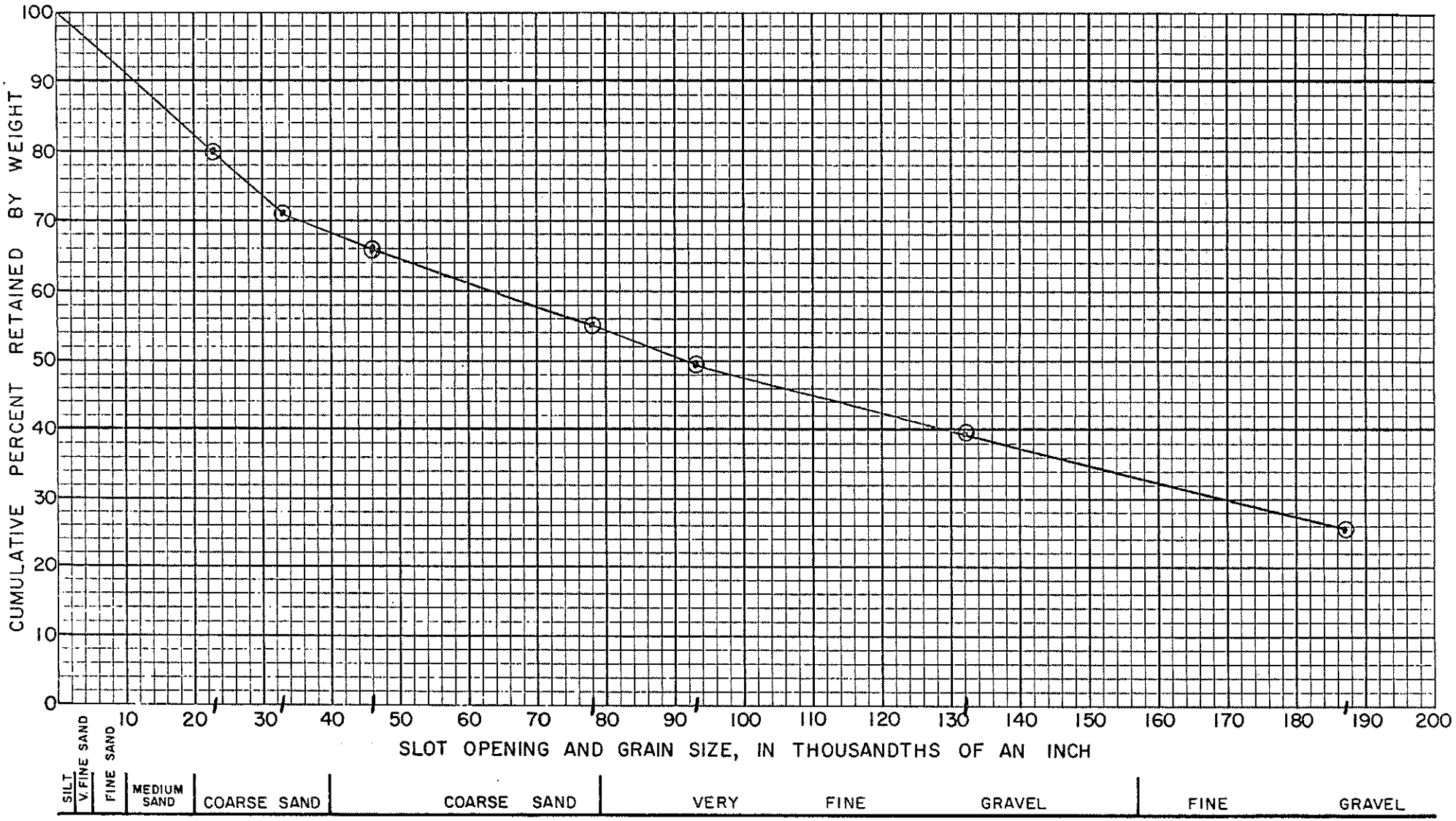
Sheet 3 of

Client DUPONT / N-HASSET ISLAND Date 10/15/85

Well TW-F

Location

Sample Depth 55



Sht. 4 of 4

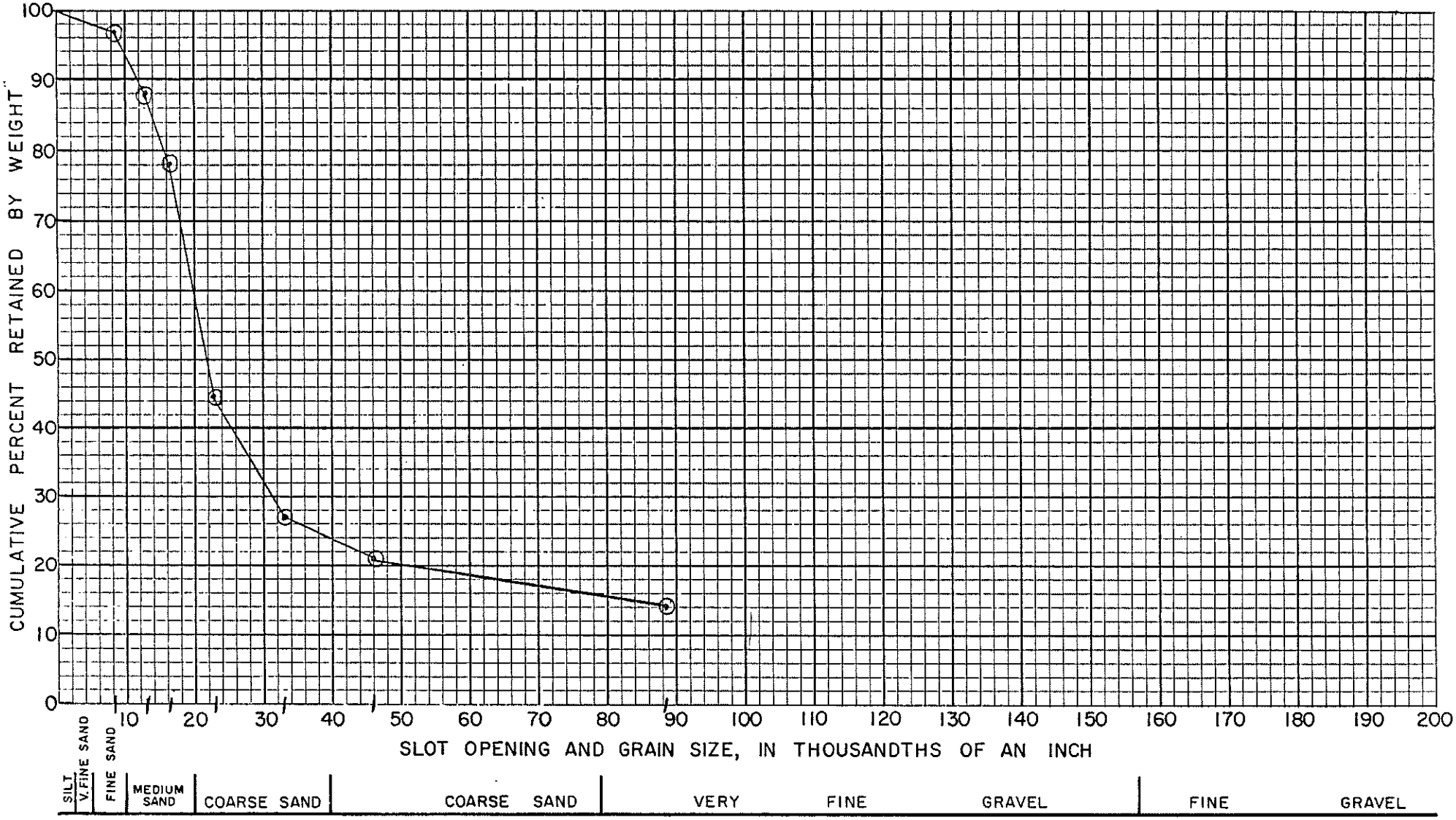
LEGGETTE, BRASHEARS & GRAHAM, INC.
CONSULTING GROUND-WATER GEOLOGISTS
72 Danbury Road
Wilton, CT. 06897

Client DUPONT / B-HASSET I.S. Date 10/15/84

Well TW-F

Location

Sample Depth 55 1/2 O



WELL STRAINER CORP.

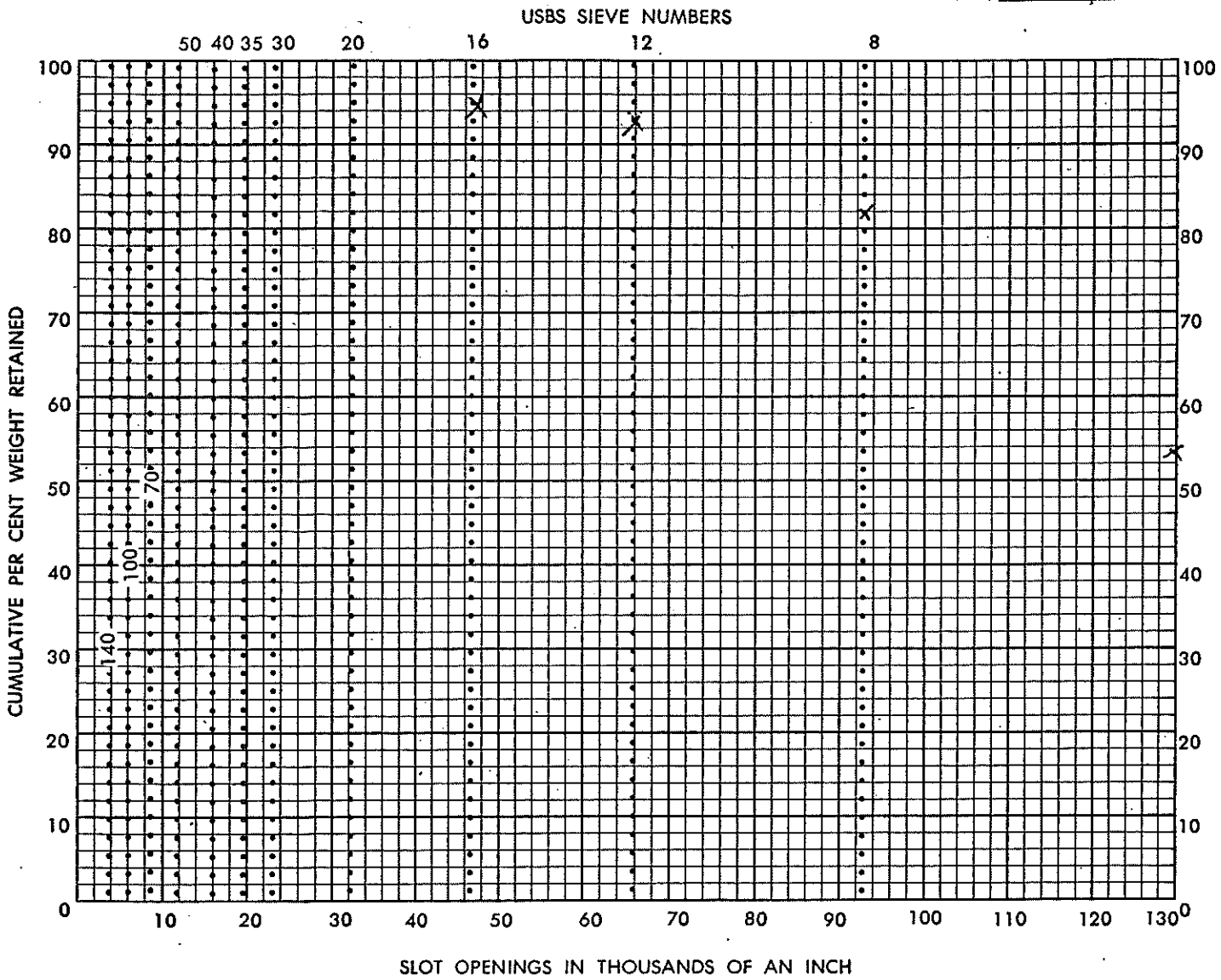
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 39 to 45

Well Designation: I

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	280	533
8	.0937	2.36	434	82.
12	.0661	1.70	491	93
16	.0469	1.18	502	95
20	.0331	0.85	506	96
30	.0234	0.60	511	
35	.0197	0.50	513	
40	.0165	.425	515	98
50	.0117	.300	519	
70	.0083	.212	521	
100	.0059	.150	523	
140	.0041	.106	524	
	PAN		525	100

FORM 900

WELL STRAINER CORP.

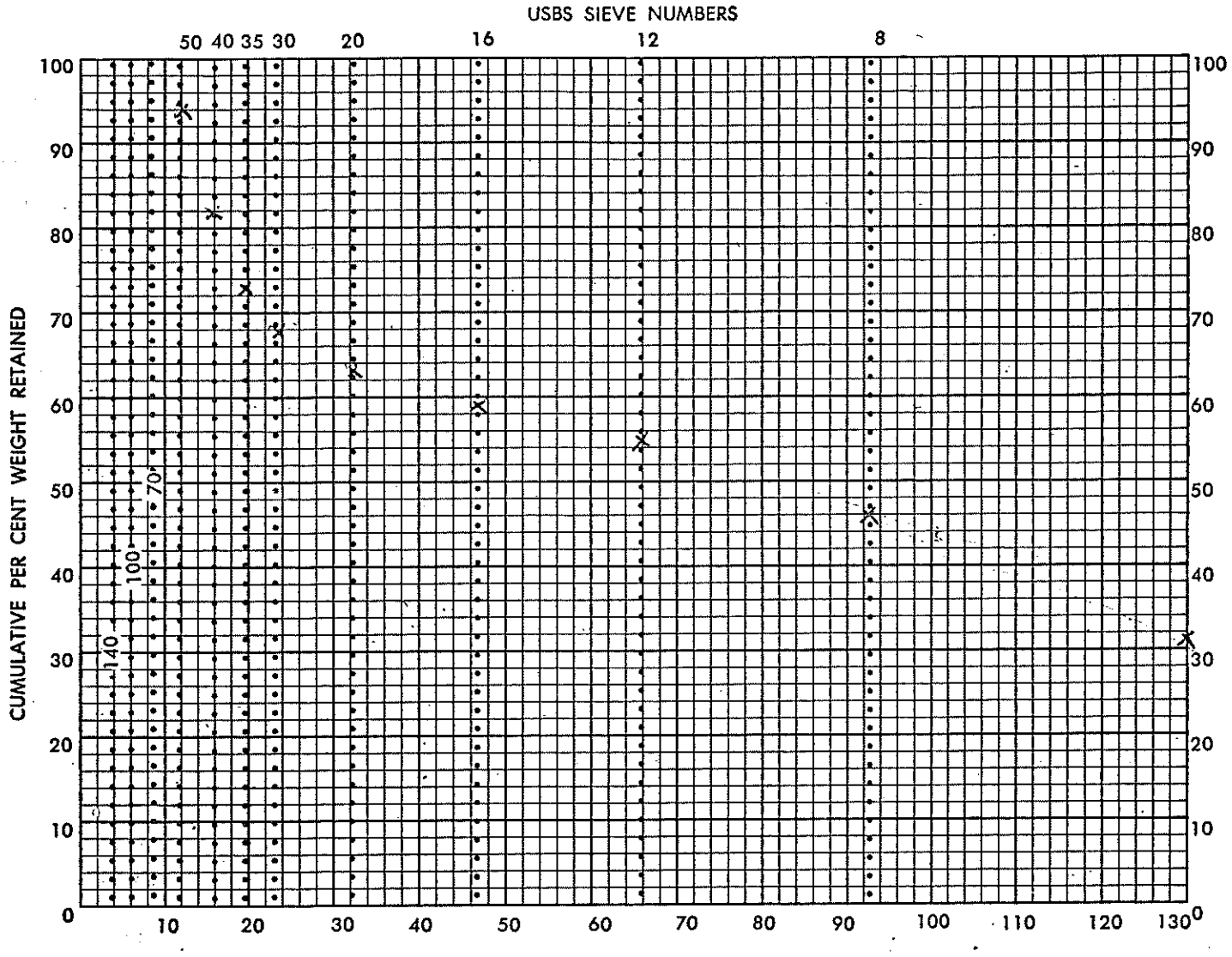
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 45 **to** 49'6"

Well Designation: I

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ **in.** **Static Level** _____ **ft.**

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	152	31
8	.0937	2.36	229	46
12	.0661	1.70	270	55
16	.0469	1.18	292	59
20	.0331	0.85	309	63
30	.0234	0.60	336	68
35	.0197	0.50	362	73
40	.0165	.425	402	82
50	.0117	.300	463	94
70	.0083	.212	484	98
100	.0059	.150	489	99
140	.0041	.106	491	–
	PAN		493	100

FORM 502

WELL STRAINER CORP.

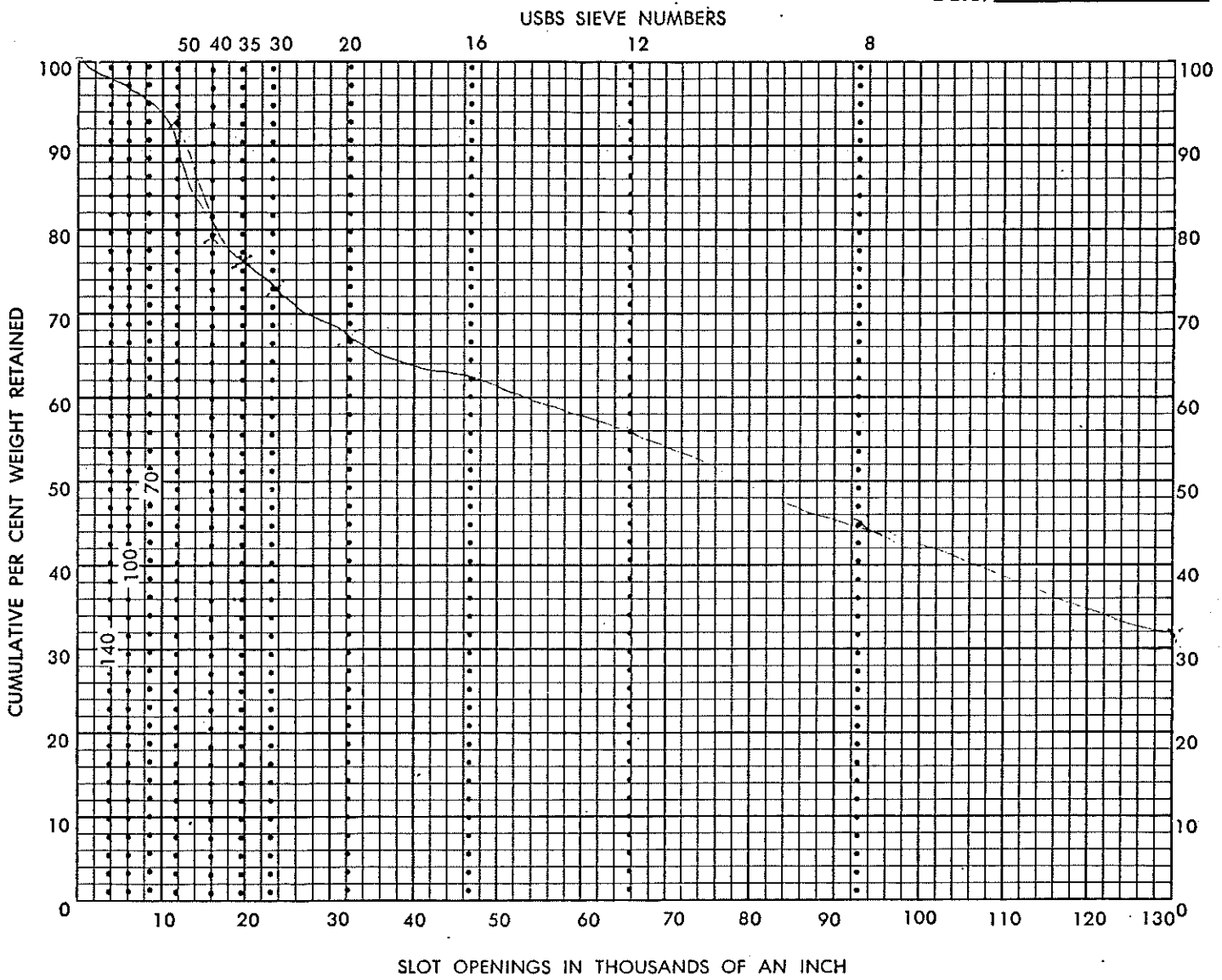
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 35 to 40

Well Designation: J

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	166	[illegible]
8	.0937	2.36	243	[illegible]
12	.0661	1.70	300	[illegible]
16	.0469	1.18	336	[illegible]
20	.0331	0.85	362	[illegible]
30	.0234	0.60	393	[illegible]
35	.0197	0.50	407	[illegible]
40	.0165	.425	427	[illegible]
50	.0117	.300	497	[illegible]
70	.0083	.212	525	[illegible]
100	.0059	.150	529	[illegible]
140	.0041	.106	532	[illegible]
	PAN		536	

FORM 800

WELL STRAINER CORP.

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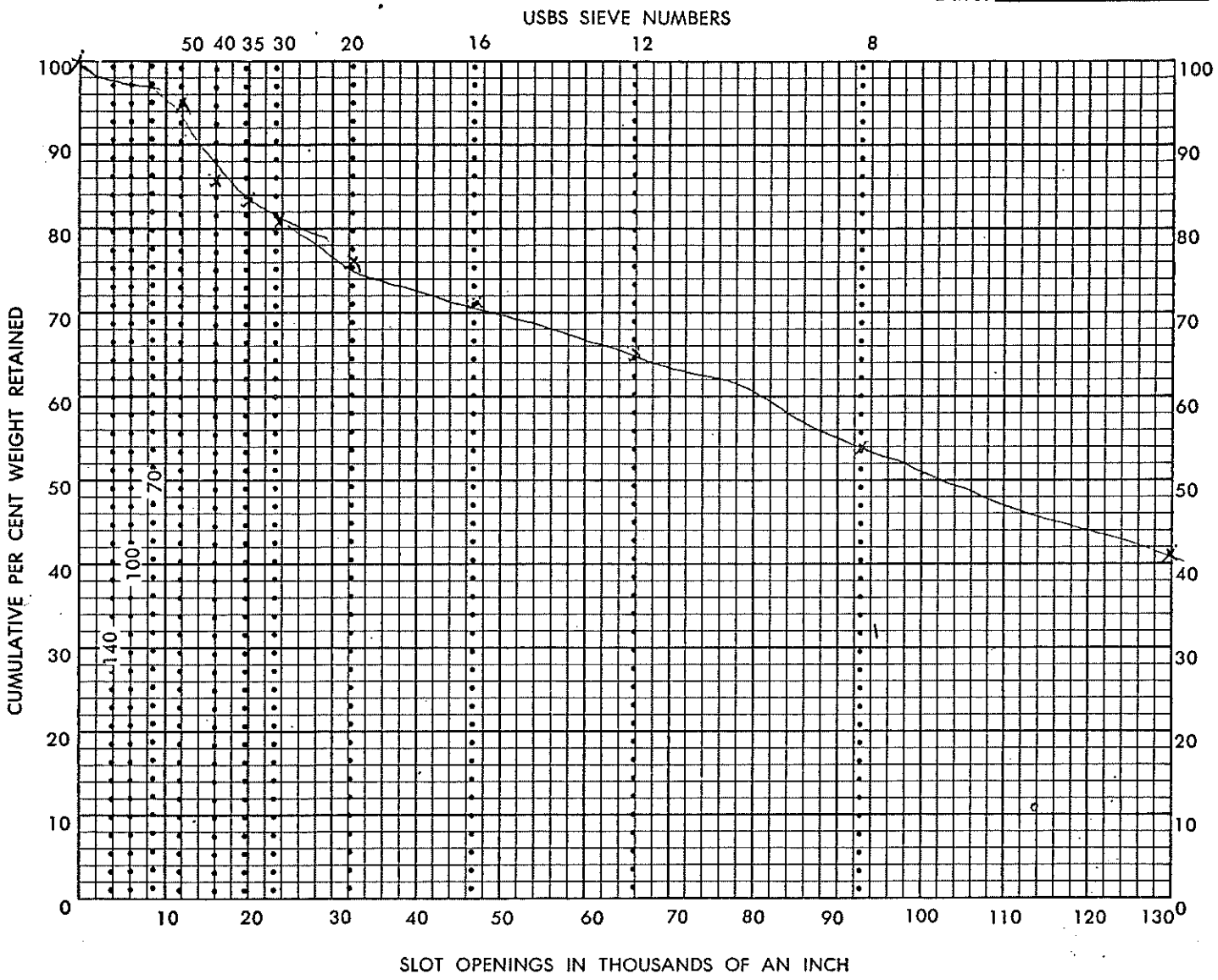
Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 40 to 43

Well Designation: J

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	174	41
8	.0937	2.36	234	54
12	.0661	1.70	278	65
16	.0469	1.18	307	71
20	.0331	0.85	326	76
30	.0234	0.60	347	81
35	.0197	0.50	356	83
40	.0165	.425	368	86
50	.0117	.300	407	95
70	.0083	.212	423	98
100	.0059	.150	427	99
140	.0041	.106	428	99
	PAN		430	100

WELL STRAINER CORP.

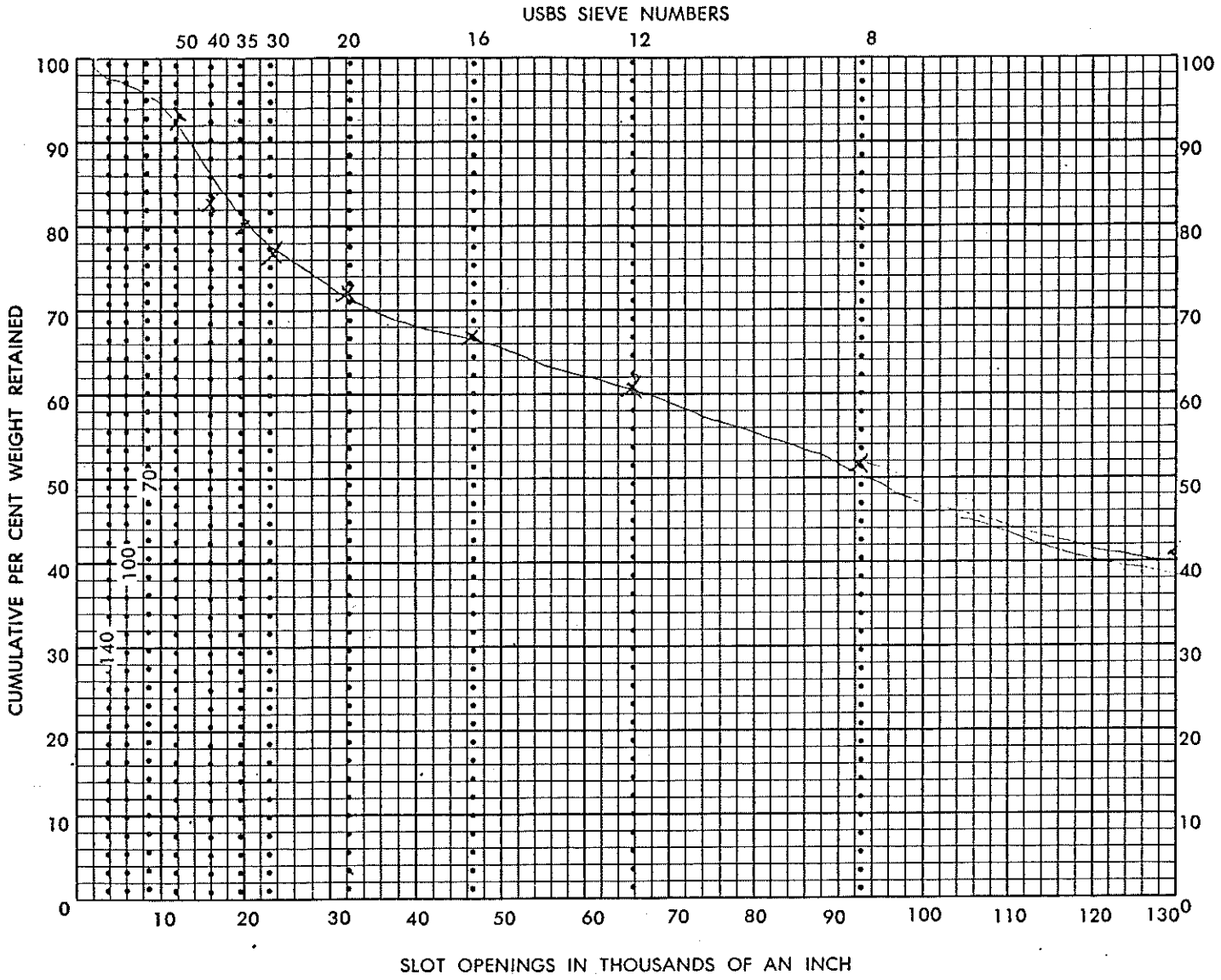
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 43 to 48

Well Designation: 5

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	165	41
8	.0937	2.36	210	52
12	.0661	1.70	246	61
16	.0469	1.18	268	67
20	.0331	0.85	287	72
30	.0234	0.60	309	77
35	.0197	0.50	319	80
40	.0165	.425	332	83
50	.0117	.300	377	94
70	.0083	.212	392	98
100	.0059	.150	395	99
140	.0041	.106	396	-
	PAN		398	100

FORM 800

LEGGETTE, BRASHEARS & GRAHAM, INC.
CONSULTING GROUND-WATER GEOLOGISTS
72 Danbury Road
Wilton, CT. 06897

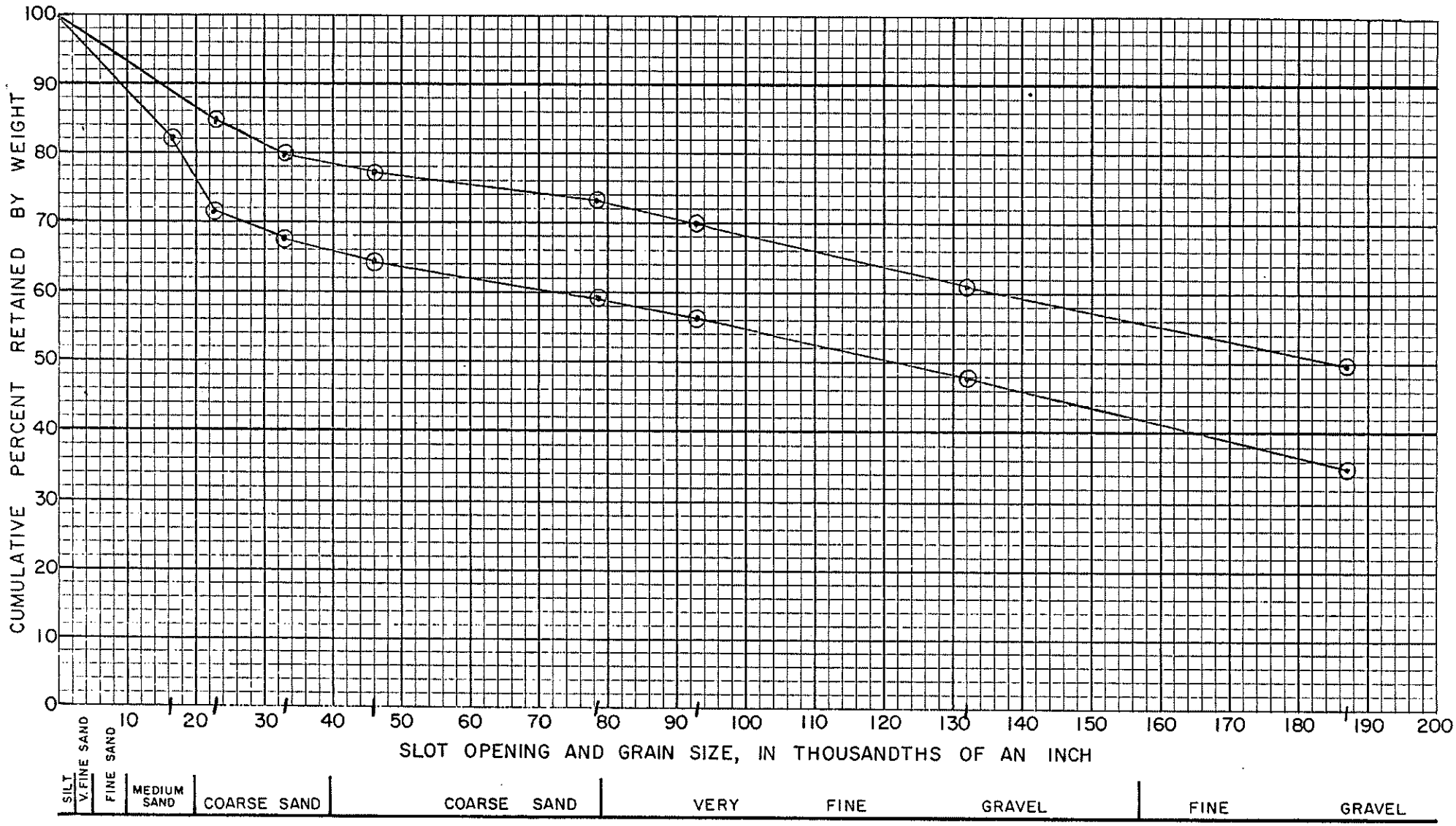
Sh 2 of

Client DUPONT / B-ISLAND Date 10/15/85

Well TW-K

Location B-HASSET ISLAND

Sample Depth 400 ± 480



WELL STRAINER CORP.

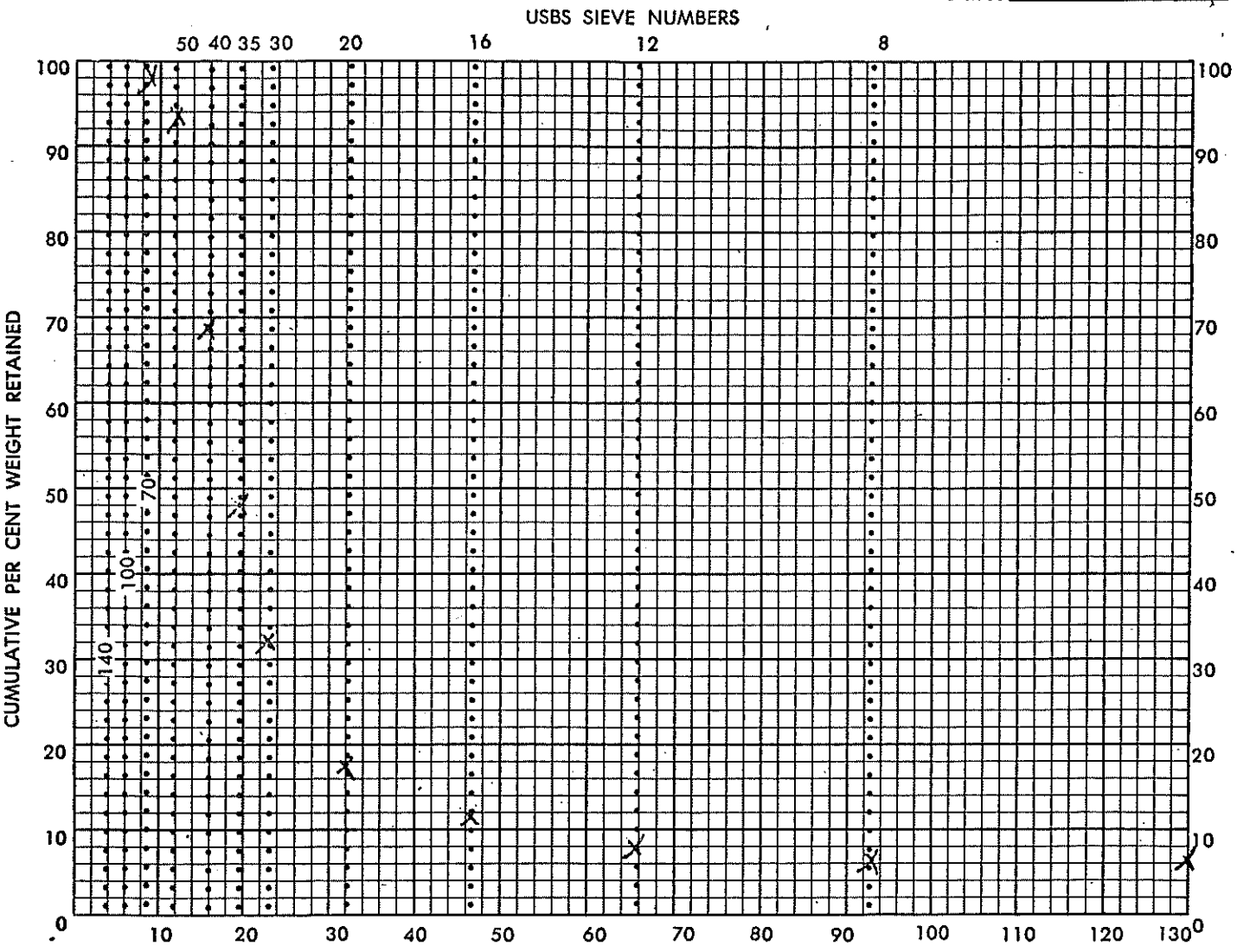
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 38 to 42

Well Designation: L

Sample received from: _____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	23	4
8	.0937	2.36	29	6
12	.0661	1.70	40	8
16	.0469	1.18	58	11
20	.0331	0.85	86	17
30	.0234	0.60	167	32
35	.0197	0.50	245	48
40	.0165	.425	350	69
50	.0117	.300	471	93
70	.0083	.212	499	98
100	.0059	.150	504	99
140	.0041	.106	506	-
	PAN		507	100

WELL STRAINER CORP.

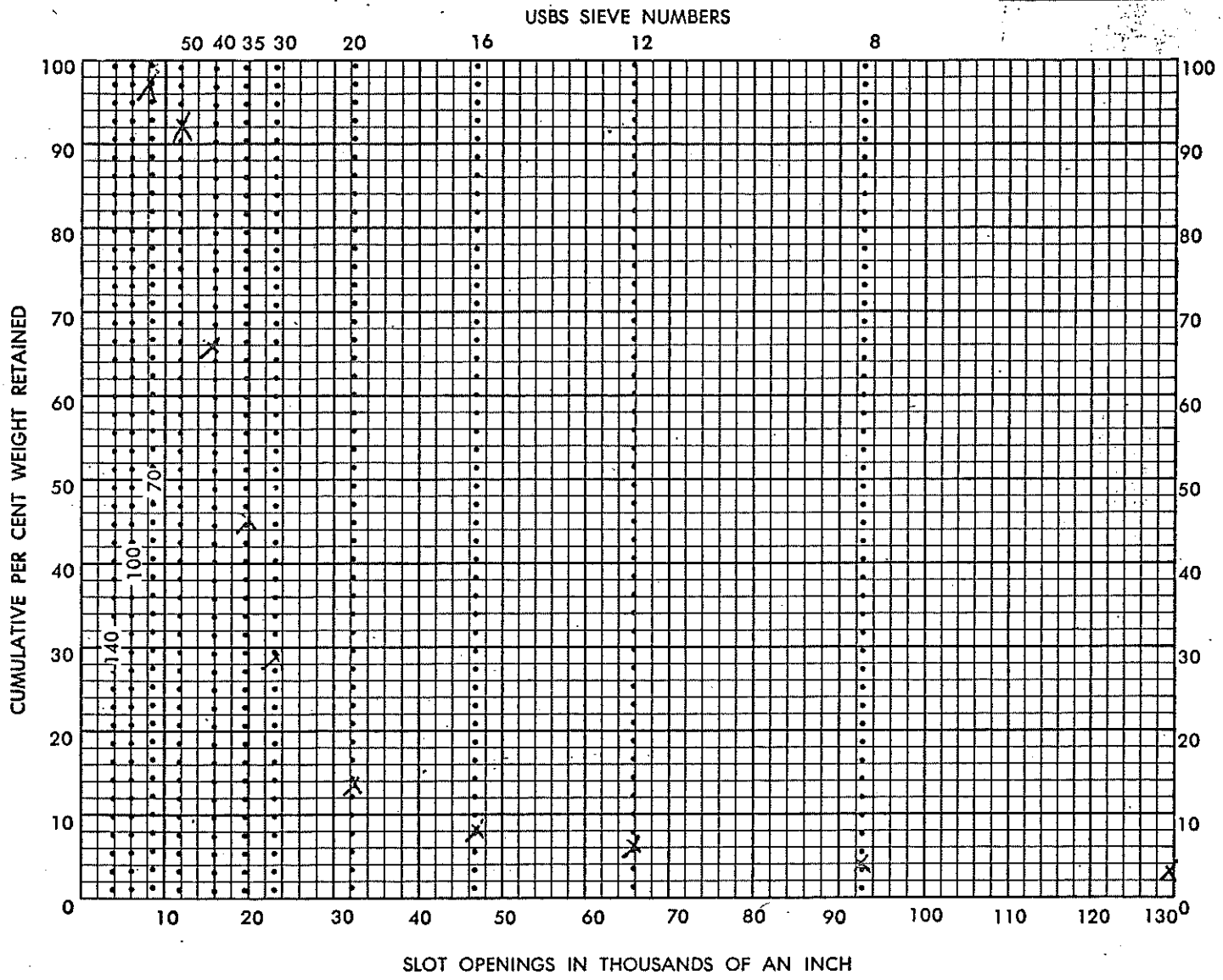
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 42 to 50

Well Designation: 1

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	12	3
8	.0937	2.36	17	4
12	.0661	1.70	24	6
16	.0469	1.18	36	8
20	.0331	0.85	55	13
30	.0234	0.60	121	29
35	.0197	0.50	188	45
40	.0165	.425	272	66
50	.0117	.300	381	92
70	.0083	.212	405	97
100	.0059	.150	410	—
140	.0041	.106	412	—
	PAN		414	100

WELL STRAINER CORP.

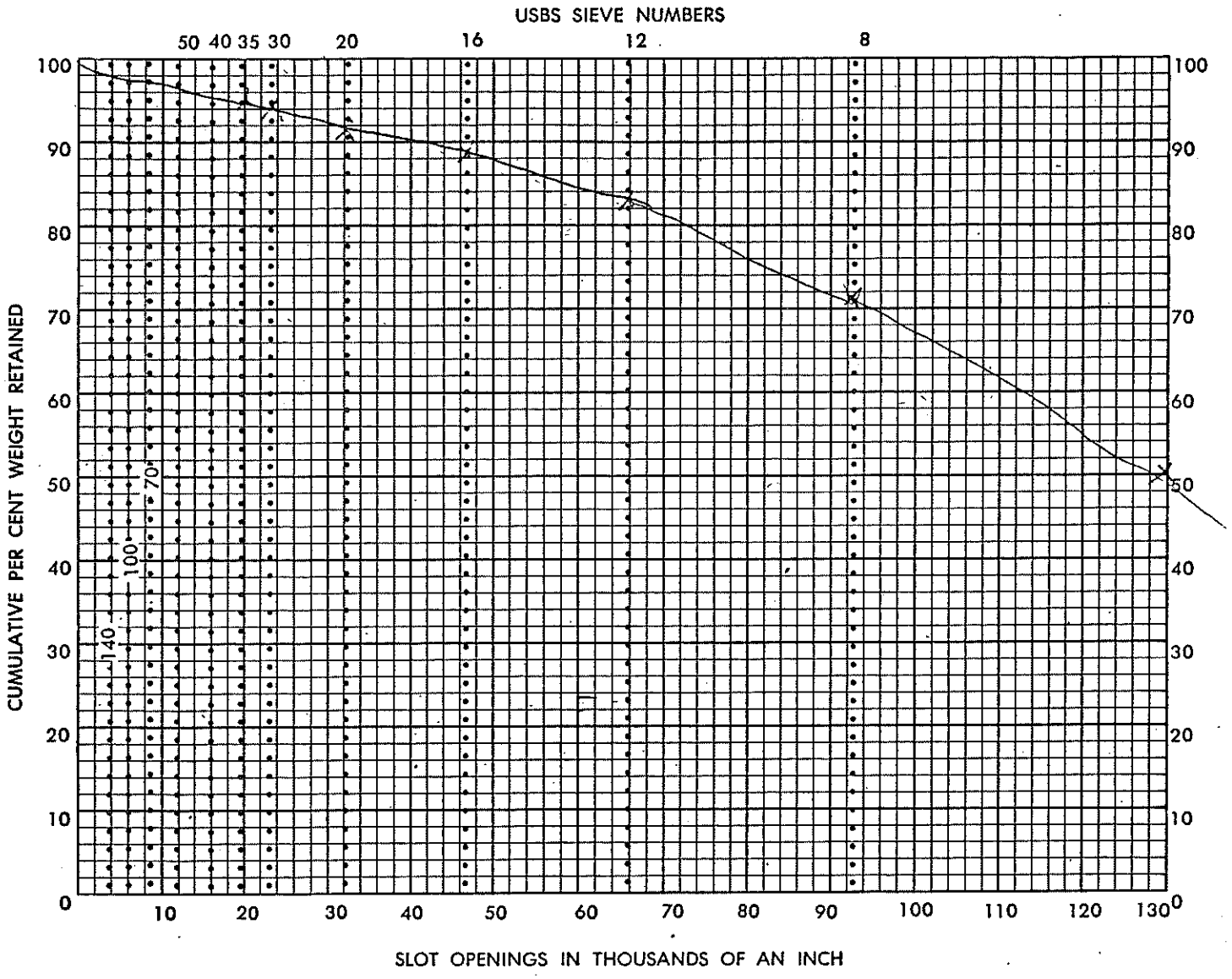
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 52 to 57

Well Designation: M

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	262	50
8	.0937	2.36	369	71
12	.0661	1.70	434	83
16	.0469	1.18	463	89
20	.0331	0.85	475	91
30	.0234	0.60	487	94
35	.0197	0.50	493	95
40	.0165	.425	500	96
50	.0117	.300	511	98
70	.0083	.212	515	99
100	.0059	.150	516	—
140	.0041	.106	517	—
	PAN		518	100

WELL STRAINER CORP.

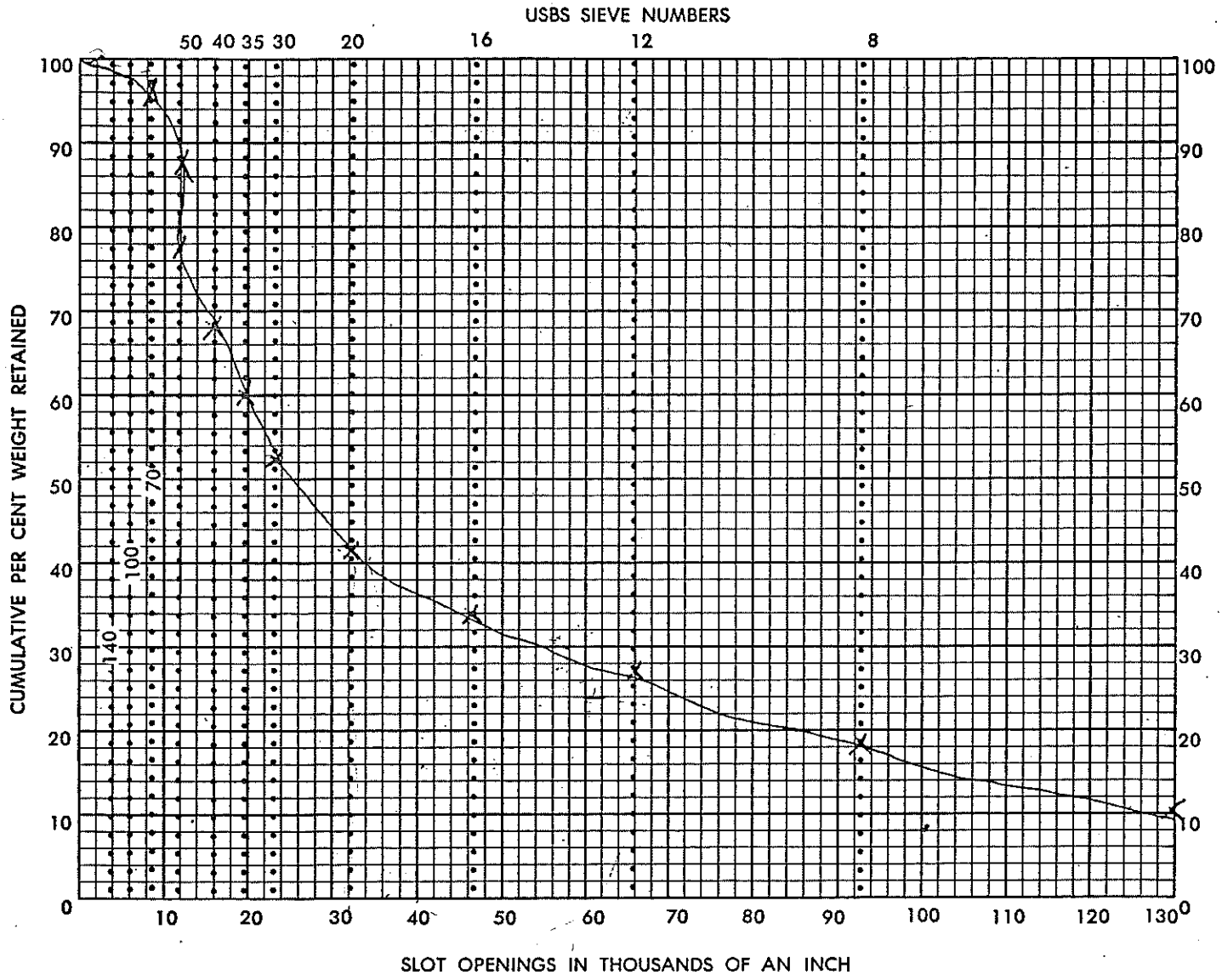
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 57 to 63

Well Designation: m

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	41	10
8	.0937	2.36	72	18
12	.0661	1.70	105	27
16	.0469	1.18	133	34
20	.0331	0.85	158	41
30	.0234	0.60	200	52
35	.0197	0.50	231	60
40	.0165	.425	269	69
50	.0117	.300	342	88
70	.0083	.212	371	96
100	.0059	.150	378	98
140	.0041	.106	381	99
	PAN		385	100

FORM 800

WELL STRAINER CORP.

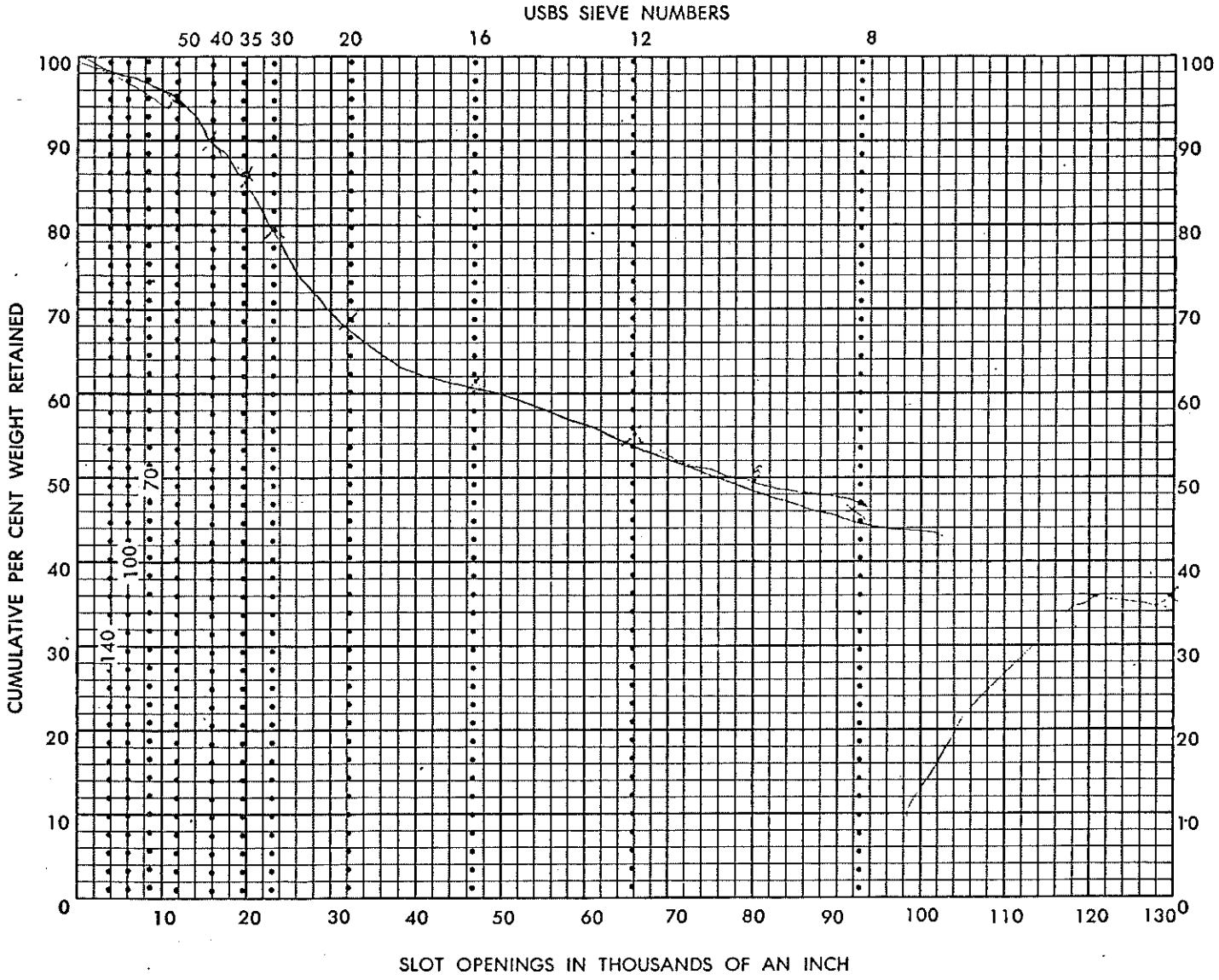
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 33 to 37

Well Designation: N

Sample received from: _____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. Static Level _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	199	[illegible]
8	.0937	2.36	256	[illegible]
12	.0661	1.70	298	[illegible]
16	.0469	1.18	334	[illegible]
20	.0331	0.85	375	[illegible]
30	.0234	0.60	436	[illegible]
35	.0197	0.50	465	[illegible]
40	.0165	.425	489	[illegible]
50	.0117	.300	516	[illegible]
70	.0083	.212	530	[illegible]
100	.0059	.150	535	[illegible]
140	.0041	.106	537	[illegible]
	PAN		540	[illegible]

WELL STRAINER CORP.

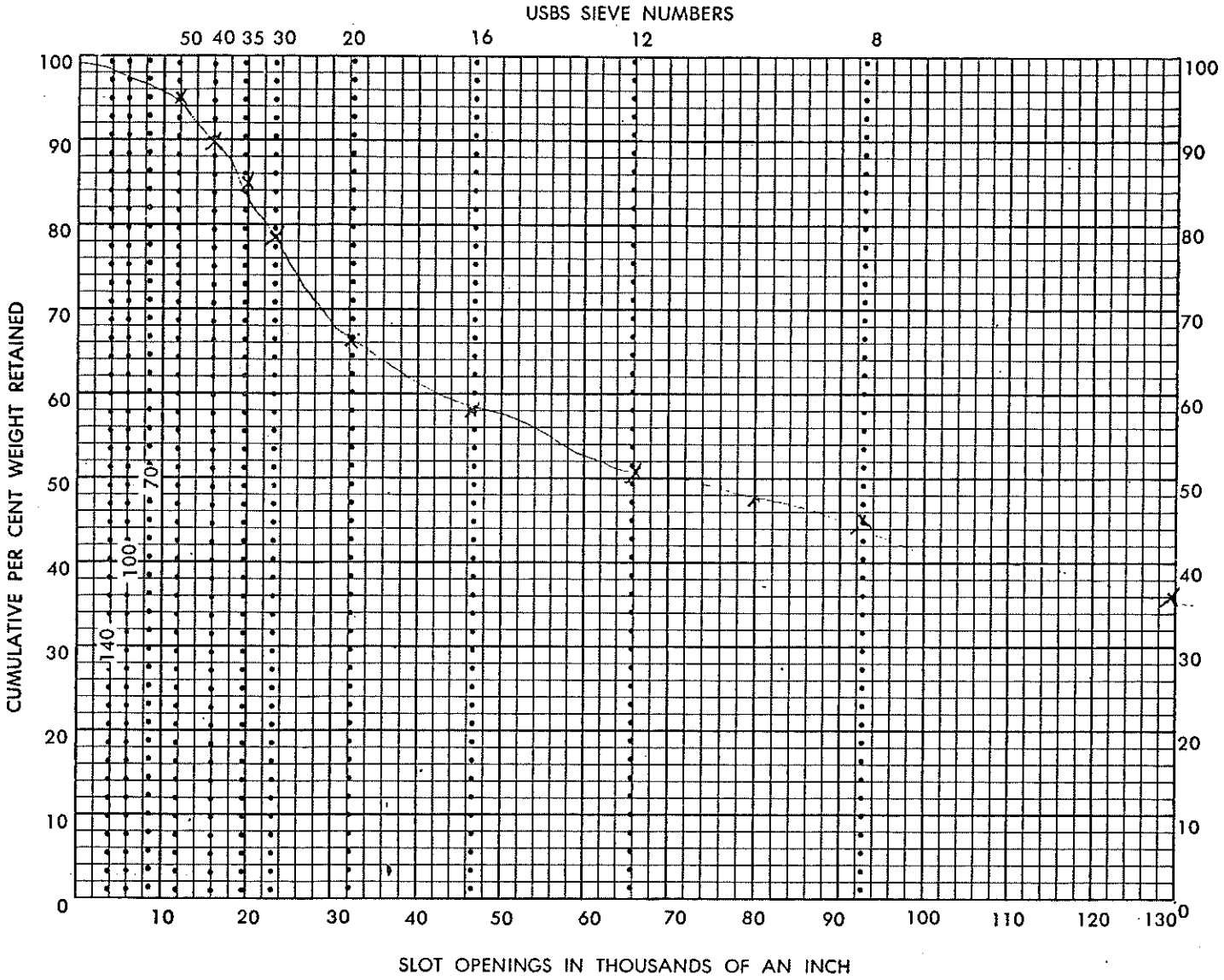
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 37 to 43

Well Designation: N

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	117	36
8	.0937	2.36	146	45
12	.0661	1.70	167	51
16	.0469	1.18	188	58
20	.0331	0.85	213	66
30	.0234	0.60	255	79
35	.0197	0.50	274	85
40	.0165	.425	290	90
50	.0117	.300	309	95
70	.0083	.212	317	98
100	.0059	.150	320	99
140	.0041	.106	321	–
	PAN		323	100

FORM 600

LEGGETTE, BRASHEARS & GRAHAM, INC.

CONSULTING GROUND-WATER GEOLOGISTS

72 Danbury Road
Wilton, CT. 06897

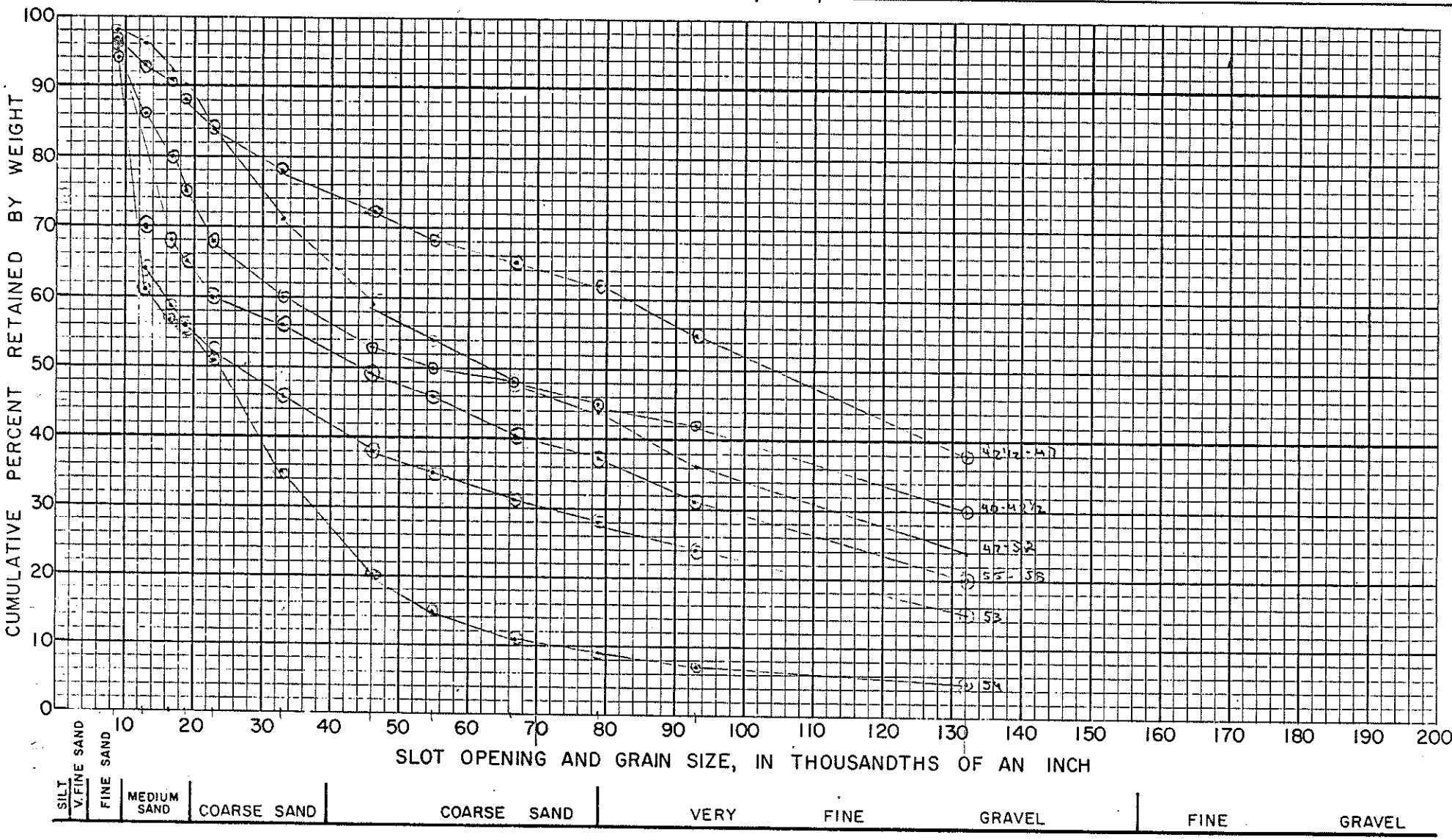
Sheet ___ of ___

Client DUPONT / B. ISLAND Date ___

Well TW-O

Location BLANNERHASSET ISLAND

Sample Depth 40-58



TW

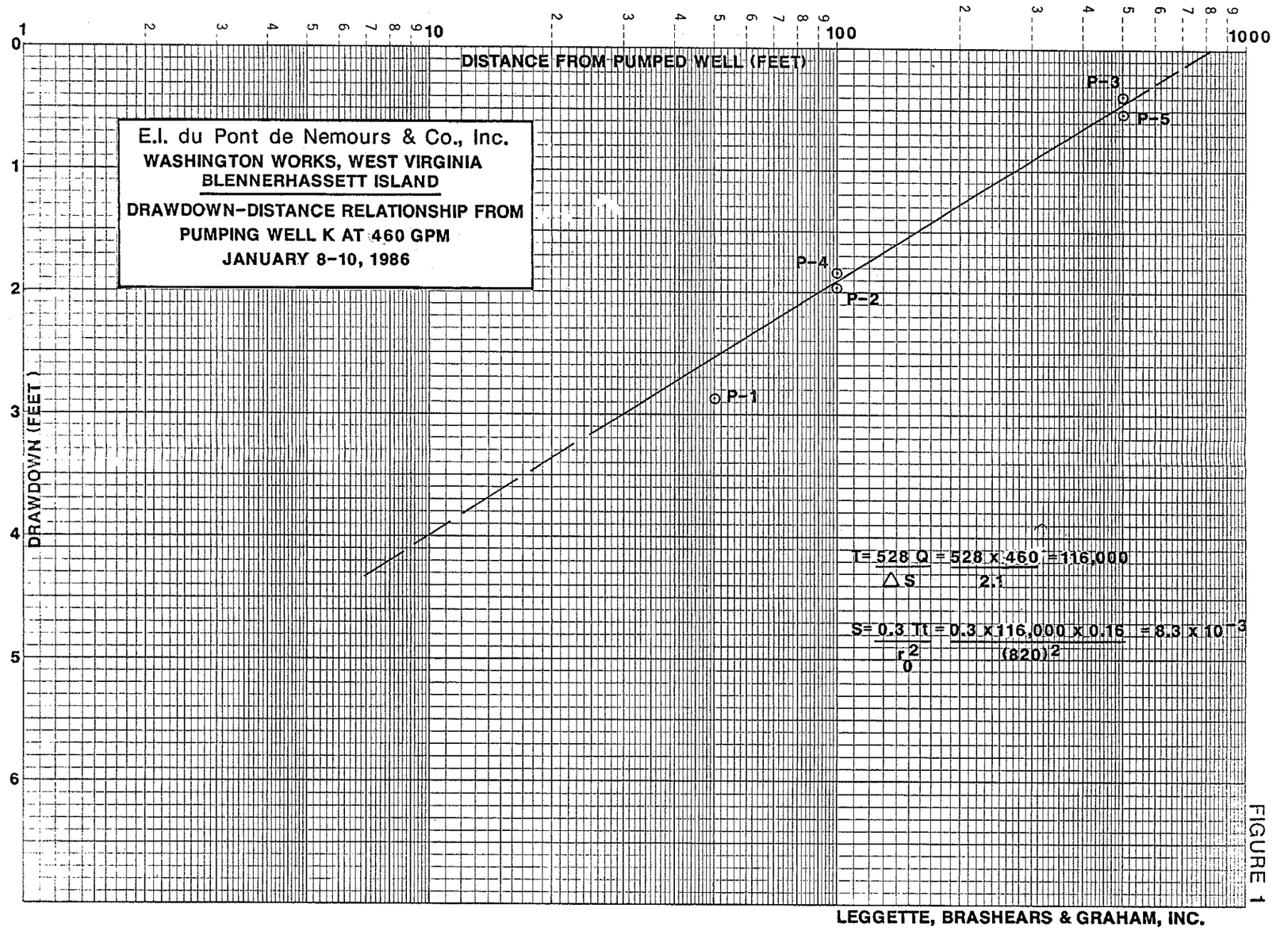


FIGURE 1

LEGGETTE, BRASHEARS & GRAHAM, INC.

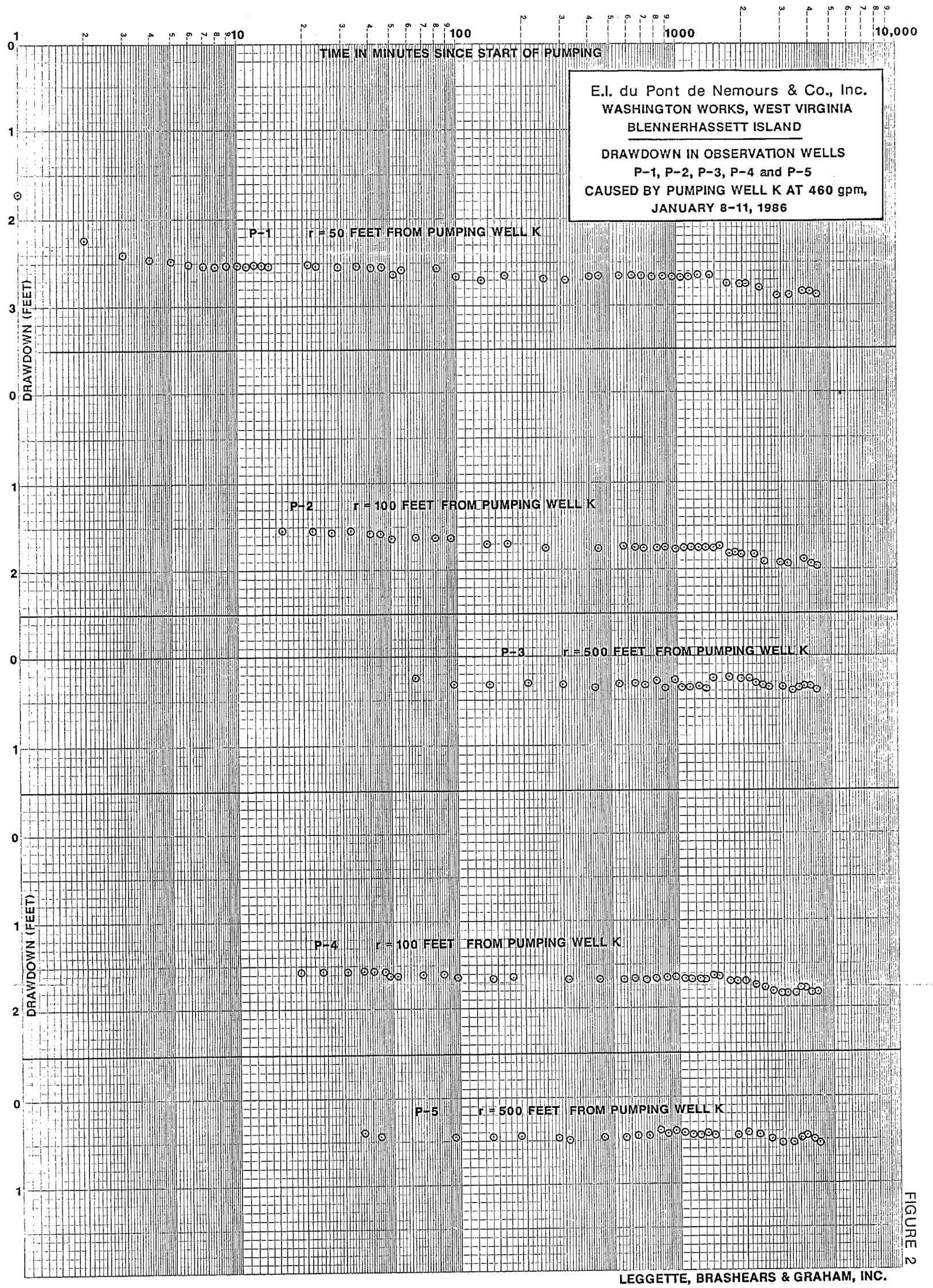


FIGURE 2

LEGGETTE, BRASHEARS & GRAHAM, INC.

TABLE 1

E. I. DU PONT DE NEMOURS & COMPANY, INC.
WASHINGTON WORKS, WEST VIRGINIA
BLENNERHASSETT ISLAND

Summary of Test Well Construction

Well	Ground level (ft MSL)	Measuring point (ft MSL)	Screen setting (ft bgl)	Screen slot size (inches)	Static Water Level 1/ Depth to water (ft bmp)	Static Water Level 1/ Elevation of water (ft MSL)
A	593.2	594.92	45 - 55 548.8	0.050	12.13	582.79
B	603.1	604.50	50 - 60 553.1	0.100	21.25	583.25
C	593.3	594.85	42 - 52 551.3	0.050	12.04	582.81
D	593.0	595.02	39 - 49 554	0.080	12.22	582.80
E	593.3	594.87	40 - 50 553.3	0.100	12.05	582.82
F	599.5	600.91	45 - 55 554.5	0.080	18.15	582.76
I	591.7	593.19	39 - 49 552.7	0.100	10.39	582.80
J	589.9	591.49	38 - 48 551.9	0.100	8.73	582.76
K	590.8	592.37	38 - 48 552.8	0.100	9.67	582.70
L	589.4	589.42	38 - 48 551.4	0.050	6.63	582.79
M	603.5	603.69	53 - 63 550.5	0.050	20.88	582.81
N	586.2	588.90	33 - 43 553.2	0.080	6.40	582.50
O	599.8	601.07	48 - 58 551.8	0.080	19.72	581.35

1/ Measured January 6, 1986
bgl - below ground level
bmp - below measuring point
ft MSL - feet mean sea level

TABLE 2

E. I. DU PONT DE NEMOURS & COMPANY, INC.
WASHINGTON WORKS, WEST VIRGINIA
BLENNERHASSETT ISLAND

Summary of Test Well Specific Capacity Data

Well no.	Screen slot size (inches)	Static water level (ft bmp)	Pumping rate (gpm)	Pumping water level (ft bmp)	Drawdown (ft)	Specific capacity (gpm/ft dd)	Date of testing
A	0.050	10.70	140	29.21	18.51	7.6	12/09/85
B	0.100	21.75	325	32.53	10.78	30.1	12/02/85
			487	40.71	18.96	25.7	
			510	41.13	19.38	26.3	
			560	43.85	22.10	25.3	
C	0.050	11.69	330	36.43	24.74	13.3	12/23/85
D	0.080	8.52	285	30.78	22.26	12.8	12/16/85
		11.53	325	34.27	22.74	14.3	12/22/85
E	0.100	11.36	240	37.38	26.02	9.2	12/21/85
F	0.080	18.09	300	41.20	23.11	13.0	12/28/85
I	0.100	10.26	350	15.48	5.22	67.0	12/31/85
			525	20.23	9.97	52.7	
J	0.100	6.95	430	25.31	18.36	23.4	12/10/85
			550	32.34	25.39	21.7	

TABLE 2
(continued)

Well no.	Screen slot size (inches)	Static water level (ft bmp)	Pumping rate (gpm)	Pumping water level (ft bmp)	Drawdown (ft)	Specific capacity (gpm/ft dd)	Date of testing
K	0.100	8.33	395	25.00	16.67	23.7	12/11/85
			535	31.71	23.38	22.9	
L	0.050	2.42	335	29.98	27.56	12.2	12/13/85
M	0.050	20.76	335	41.02	20.26	16.5	12/30/85
			420	45.73	24.97	16.8	
N	0.080	4.04	250	9.43	5.39	46.4	11/01/85
			350	12.15	8.11	43.2	
			430	14.15	10.11	42.5	
O	0.080	17.56	500	29.10	11.54	43.3	11/25/85
			560	31.63	14.07	39.8	
			600	33.37	15.81	38.0	
			635	35.86	18.30	34.7	
			700	41.85	24.29	28.8	

Note: Specific capacity data for 1 hour of testing

ft bmp - feet below measuring point
gpm - gallons per minute
gpm/ft dd - gallons per minute per foot of drawdown

TABLE 3

E. I. DU PONT DE NEMOURS & COMPANY, INC.
WASHINGTON WORKS, WEST VIRGINIA
BLENNERHASSETT ISLAND

Summary of Available Drawdown

Well no.	Elevation Top of screen (ft MSL)	SWL[1] (ft MSL)	Specific capacity[2] (gpm/ft)	Maximum available drawdown (ft)
A	548.2	582.8	7.6	35
B	553.1	583.3	26	32
C	551.3	582.8	13	34
D	554.0	582.8	14	29
E	553.3	582.8	9	30
F	554.5	582.8	13	28
I	552.7	582.8	53	30
J	551.9	582.8	22	31
K	552.8	582.7	23	30
L	551.4	582.8	12	31
M	550.5	582.8	17	32
N	553.2	582.5	42	29
O	551.8	581.4	28	30
13	552.	582.7	40[3]	31

1/ Measured on January 6, 1986.
2/ Specific capacity for one hour of testing.
3/ From 1965 test.

TABLE 4

E. I. DU PONT DE NEMOURS & COMPANY, INC.
WASHINGTON WORKS, WEST VIRGINIA
BLENNERHASSETT ISLAND

Summary of Water Levels Prior to and at the End of the Pumping Test at Well K
January 8-11, 1986

Well no.	Static Water Level[1/] (prior to pumping)			Water Level at End of[2/] Pumping Test		
	Measuring point (ft MSL)	Depth to water (ft bmp)	Elevation (ft MSL)	Depth to water (ft bmp)	Elevation (ft MSL)	Change in water level (ft)
			New Test Wells			
K*	592.37	9.67	582.70	36.11	556.26	-26.44
P-1	589.50	6.85	582.65	9.73	579.77	-2.88
P-2	591.10	8.46	582.64	10.43	580.67	-1.97
P-3	591.30	8.52	582.78	8.91	582.39	-0.39
P-4	592.00	9.34	582.66	11.19	580.81	-1.85
P-5	592.70	9.95	582.75	10.47	582.23	-0.52
River	585.58	2.85	582.73	2.82	582.76	+0.03
A	594.92	12.13	582.79	12.12	582.80	+0.01
B	604.50	21.25	583.25	21.19	583.31	+0.06
C	594.85	12.04	582.81	12.06	582.79	-0.02
D	595.02	12.22	582.80	12.22	582.80	-0.00
E	594.87	12.05	582.82	12.11	582.76	-0.06
F	600.91	18.15	582.76	18.14	582.77	+0.01
I	593.19	10.39	582.80	10.49	582.70	-0.10
J	591.49	8.73	582.76	8.87	582.62	-0.14
L	589.42	6.63	582.79	6.78	582.64	-0.15
M	603.69	20.88	582.81	20.96	582.73	-0.08
N	588.90	6.40	582.50	6.32	582.58	+0.08
O	601.07	19.72	581.35	19.83	581.24	-0.11
			Downstream Wells			
7	598.73	31.96	566.77	31.58	567.15	+0.38
8	598.86	32.65	566.21	32.64	566.22	+0.01
9	588.00	11.26	576.74	11.57	576.43	-0.31
12	598.44	15.69	582.75	15.72	582.72	-0.03
13	591.53	8.85	582.68	8.85	582.68	-0.00
16	593.23	19.60	573.63	20.03	573.20	-0.43
17	594.13	13.84	580.29	13.97	580.16	-0.13
18	599.80	36.50	563.30	36.48	563.32	+0.02
TW-439	599.80	31.93	567.87	32.19	567.61	-0.26
TW-440	598.50	32.03	566.47	32.26	566.24	-0.23
TW-441	600.70	32.16	568.54	32.50	568.20	-0.34
TW-442	603.50	34.29	569.21	34.59	568.91	-0.30
TW-443	606.60	32.65	573.95	32.93	573.67	-0.28

1/ January 6, 1986
2/ January 11, 1986

* pumping well
ft bmp = feet below measuring point
ft MSL = feet above mean sea level

TABLE 5

E. I. DU PONT DE NEMOURS & COMPANY, INC.
WASHINGTON WORKS, WEST VIRGINIA
BLENNERHASSETT ISLAND

Ground-Water Quality Data

Well	Sample	Sampling date	Collection time	pH	Conductivity	Total dissolved solids	Total hardness $CaCO_3$	Ca	Mg	Na	K	HCO_3	Cl	SO_4	NO_3	Poly-phosphate NO_3	Ortho-phosphate PO_4	Fe	Mn	Al	Cu	Zn	Ni	CrO_4	SiO_2	TOC
A	1	12/09/85	1045	6.7	820	560	440	140	22	10	0.5	364	12	140	3.5	0.15	*0.05	0.2	0.50	*0.1	*0.05	0.25	*0.05	0.05	18	24
	2	12/09/85	1300	6.7	840	560	444	140	23	11	*0.5	362	12	140	7.0	0.15	*0.05	0.1	0.70	*0.1	0.05	0.70	*0.05	*0.05	18	4
B	1	12/29/85	1330	6.5	280	200	123	40	5.6	4.5	2.5	98	2	55	4.5	0.20	*0.05	0.2	*0.05	*0.1	0.05	0.35	*0.05	*0.05	28	1
	2	12/30/85	1300	6.5	280	190	123	40	5.7	3.8	2.0	92	2	55	4.5	0.20	*0.05	0.2	*0.05	*0.1	*0.05	0.35	0.10	*0.05	28	2
C	1	12/23/85	1130	7.2	560	360	264	90	9.4	3.6	2.0	246	7	70	11.0	0.20	*0.05	0.3	0.10	*0.1	*0.05	0.55	0.15	*0.05	26	4
	2	12/23/85	1500	7.2	570	370	277	95	9.7	3.8	1.5	256	7	75	9.5	0.20	*0.05	0.2	0.05	*0.1	0.05	0.35	*0.05	*0.05	28	8
D	1	12/16/85	1320	6.6	--	300	212	65	12	4.2	3.0	165	6	80	2.5	0.20	*0.05	0.3	0.05	*0.1	0.05	0.50	0.20	*0.05	26	6
	2	12/16/85	1600	6.7	450	300	220	70	11	4.4	2.5	177	5	60	2.0	0.15	0.05	0.3	*0.05	*0.1	*0.05	0.50	*0.05	*0.05	28	2
E	1	12/21/85	1200	6.2	290	210	137	40	9.1	3.7	2.0	85	3	70	2.0	0.20	0.05	0.4	*0.05	0.2	*0.05	0.45	*0.05	*0.05	28	3
	2	12/21/85	1530	6.0	290	210	136	39	9.4	3.9	1.5	83	2	65	2.5	0.20	0.10	0.25	*0.05	*0.1	*0.05	0.30	*0.05	*0.05	30	4
F	1	12/28/85	1350	6.3	320	230	138	40	9.3	4.4	1.0	112	4	65	2.5	0.20	*0.05	1.0	1.50	0.3	*0.05	0.20	*0.05	*0.05	28	6
	2	12/29/85	930	6.4	320	220	146	43	9.4	4.2	1.0	112	5	60	2.5	0.25	*0.05	0.6	1.40	*0.1	*0.05	0.30	*0.05	*0.05	30	1
I	1	12/31/85	1430	6.4	550	390	257	75	17	5.7	2.5	146	7	140	11.0	0.20	*0.05	0.2	0.20	*0.1	0.05	0.25	0.05	*0.05	26	3
	2	01/01/86	1400	6.3	560	400	274	80	18	7.0	2.0	146	8	140	12.0	0.20	*0.05	0.25	0.15	*0.1	0.05	0.35	0.10	*0.05	26	6
J	1	12/10/85	1000	6.5	480	330	232	70	14	6.7	*0.5	142	8	110	9.0	0.20	*0.05	0.2	*0.05	*0.1	*0.05	0.25	*0.05	*0.05	24	3
	2	12/10/85	1600	6.4	470	330	232	70	14	6.5	*0.5	140	7	110	8.5	0.20	*0.05	0.1	*0.05	*0.1	*0.05	0.15	*0.05	*0.05	24	3
K	1	12/11/85	1230	6.5	430	290	220	70	11	5.2	*0.5	146	6	85	3.0	0.15	*0.05	0.1	*0.05	*0.1	*0.05	0.40	*0.05	*0.05	24	3
	2	12/12/85	1230	6.4	430	290	249	70	12	5.5	*0.5	146	6	90	4.5	0.20	*0.05	0.2	*0.05	*0.1	0.10	1.20	*0.05	*0.05	24	5
	3	01/09/86	1100	6.4	430	310	212	65	12	6.3	2.0	146	5	95	4.5	0.25	*0.05	0.1	*0.05	*0.1	0.10	0.25	*0.05	*0.05	28	10
	4	01/11/86	1130	6.5	440	300	195	60	11	5.3	2.0	146	6	95	4.5	0.15	0.10	0.2	0.05	*0.1	*0.05	0.40	*0.05	*0.05	28	3
L	1	12/13/85	1020	6.8	400	270	199	65	9	3.2	2.5	175	3	60	5.5	0.20	*0.05	0.2	0.10	*0.1	0.05	0.70	*0.05	*0.05	28	8
	2	12/13/85	1400	6.9	400	270	186	60	8.8	4.1	2.5	171	4	60	5.0	0.20	*0.05	0.2	0.05	*0.1	*0.05	0.40	*0.05	*0.05	28	1
M	1	12/31/85	930	6.5	310	220	140	46	6.0	4.2	1.5	110	2	60	5.0	0.25	*0.05	0.2	0.05	*0.1	0.05	*0.05	*0.05	*0.05	30	2
	2	12/31/85	1150	6.6	300	210	137	45	5.9	4.0	1.5	106	2	60	5.0	0.25	*0.05	0.2	0.05	*0.1	0.05	0.35	*0.05	*0.05	30	2
N	1	11/01/85	--	7.0	600	410	282	90	14	12	*0.5	203	21	120	0.5	0.15	*0.05	*0.05	3.9	*0.1	*0.05	0.05	*0.05	*0.05	16	3
	2	11/01/85	--	6.9	590	400	270	85	14	14	*0.5	197	21	120	1.0	0.10	*0.05	0.1	3.9	*0.1	*0.05	0.20	*0.05	*0.05	14	3
0	1	11/25/85	0930	-																						
	2	11/25/85	1640																							

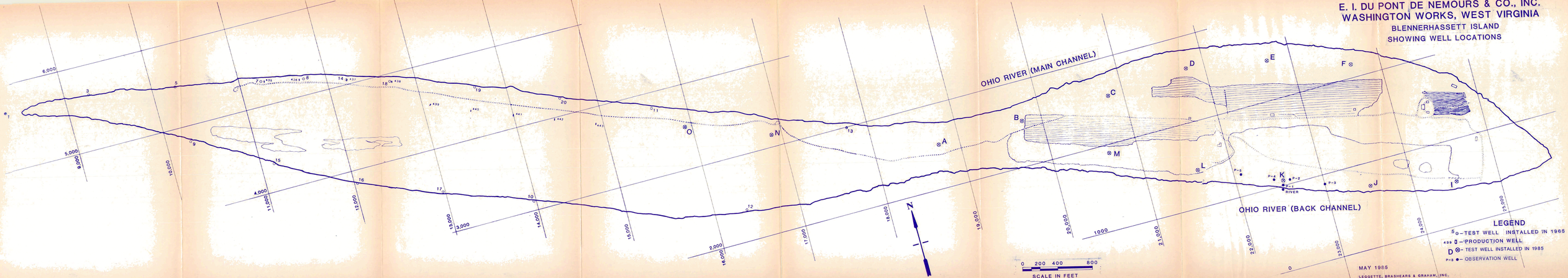
Samples lost during delivery or in the laboratory

9	1	01/03/86	1300	7.5	470	330	187	55	12	18	3.5	144	26	85	2.5	*0.1	*0.05	2.4	4.5	0.2	0.20	0.35	0.05	*0.05	18	2
12	1	12/30/85	1330	7.4	600	420	316	100	16	4.6	2.5	242	6	110	2.0	0.20	*0.05	1.2	1.0	*0.1	*0.05	0.55	*0.05	*0.05	26	3
13	1	12/29/85	1400	6.9	650	440	307	90	20	8.2	4.0	246	12	120	7.0	0.10	*0.05	0.3	9.7	*0.1	*0.05	0.40	*0.05	*0.05	20	10
16	1	01/04/86	1130	7.4	550	370	204	65	10	28	3.5	98	45	120	4.0	0.1	*0.05	1.8	0.50	0.3	0.10	0.5	*0.05	*0.05	9.6	1
17	1	01/04/86	1515	7.7	520	350	179	55	10	32	4.0	104	40	120	1.0	*0.1	*0.05	2.4	0.45	*0.1	0.10	0.25	*0.05	*0.05	8.6	1
443	1	09/24/85	1305	7.0	430	280	165	50	10	21	1.0	71	33	95	1.5	*0.1	*0.05	*0.05	*0.05	*0.1	*0.05	*0.05	*0.05	*0.05	8.9	1

* Denotes less than

LEGGETTE, BRASHEARS & GRAHAM, INC.

E. I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON WORKS, WEST VIRGINIA
BLENNERHASSETT ISLAND
SHOWING WELL LOCATIONS



E. I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON WORKS, WEST VIRGINIA
BLENNERHASSETT ISLAND
GROUND-WATER ELEVATION ON JANUARY 6, 1986
PRIOR TO PUMPING AT WELL K

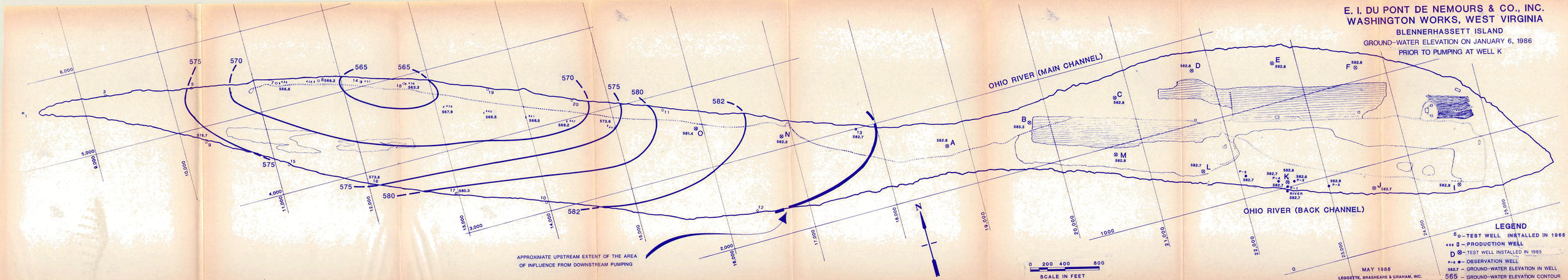
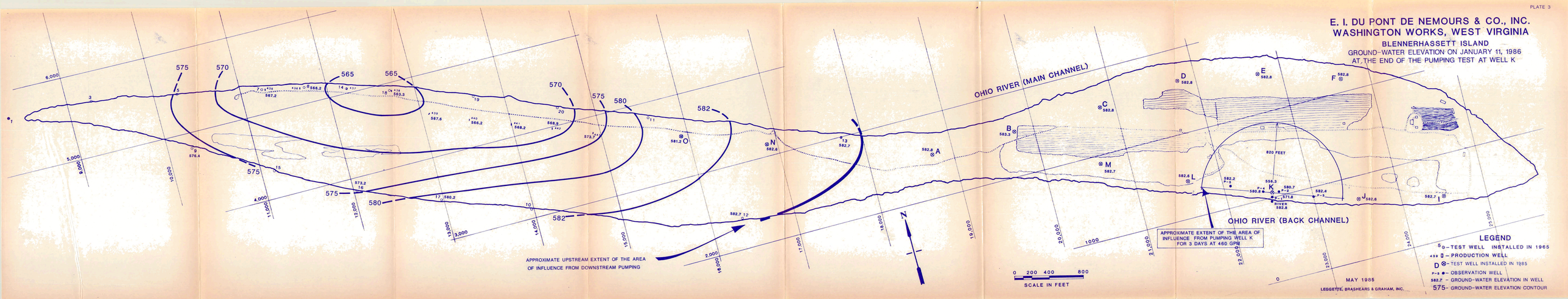


PLATE 3

E. I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON WORKS, WEST VIRGINIA
BLENNERHASSETT ISLAND
GROUND-WATER ELEVATION ON JANUARY 11, 1986
AT THE END OF THE PUMPING TEST AT WELL K



LEGEND

- 5 ⊙ – TEST WELL INSTALLED IN 1965
- 439 □ – PRODUCTION WELL
- D ⊗ – TEST WELL INSTALLED IN 1985
- P-5 ● – OBSERVATION WELL
- 582.7 – GROUND-WATER ELEVATION IN WELL
- 575 – GROUND-WATER ELEVATION CONTOUR

LOCAL GEOLOGY

The Blennerhassett Island area lies outside the reach of all glacial episodes that effected this region. The Ohio River valley and underlying aquifer materials are, however, of glacio-fluvial origin. The glacial materials are outwash sands and gravels from meltwaters of Wisconsin stage glaciation.

The present day Ohio River is a consequence of alteration of surface drainage patterns due to the Wisconsin glaciation. Pre-Wisconsin surface drainage was generally in a northern direction. The Wisconsin glacier formed a barrier and blocked surface drainage along its front, producing large impoundments of water and subsequently altering surface drainage patterns.

Glacial outwash deposits in the Blennerhassett Island area were probably discharged by the Muskingum River which enters the Ohio River upgradient of the site. The Muskingum River was one of the major sources of outwash to the Ohio River valley.

The glacio-fluvial deposits overlie bedrock belonging to the Permian System. The bedrock lithology is a variable sequence of shale and sandstone. The bedrock in this area is a poor source of groundwater.

Analysis of well logs shown in Appendix F for specific well sites on Blennerhassett Island indicates that the total thickness of unconsolidated deposits lies in the range of 58 to 62 feet. The upper silty clay portion of the unconsolidated deposits generally ranges from 10 to 40 feet and is considered alluvial in nature. The lower portion of the formation is comprised of predominantly sands and gravels and is more permeable. Water supply wells on the island are developed in this lower interval. The aquifer obtains most of its recharge by infiltration from the Ohio River.

Site specific subsurface conditions at each tested site are discussed as follows.

SITE SPECIFIC GEOLOGY

Site specific geology has been determined based on data obtained as a part of this project. The data includes sieve analysis and driller's well logs for du Pont water supply wells and test well 'R'. Driller's well logs address subsurface conditions the full depth of the unconsolidated materials, or approximately 60 feet and roughly 10 feet into the bedrock. Subsurface conditions at each well location are discussed below. The driller's well logs, construction details, and sieve data are shown in Appendices F and G.

Water Supply Well No. 436

Well No. 436 is located approximately 1 mile east of the west end of the island, approximately 500 feet from well Nos. 435 to the west and 437 to the east. The well was drilled to a total depth of 67 feet below land surface and completed in October of 1986. Subsurface conditions at the well are generally as follows:

0- 2 feet	-	Soil
0-42 feet	-	Silty clay (sand and gravel lens at 30 feet)
42-58 feet	-	Sand and gravel, fine to coarse
58-61 feet	-	Clay and shale
61-67 feet	-	Medium hard shale

Well No. 436 was drilled as a 30-inch diameter borehole. The well is equipped with a 20-inch diameter, 90 slot stainless steel screen which lies between 44 and 56 feet below ground level. A 20-inch diameter steel casing extends to the land surface. The bottom of the screen is not plugged and has approximately 11 feet of 20-inch steel casing welded to it. A steel plate is welded to the bottom of this extension which lies to a depth of approximately 10 feet below the top of bedrock. A gravel pack of Best No. 430 quartz sand was placed in the annular space between the borehole and 20-inch diameter inner casing and screen.

On November 11, 1986, subsequent to development and prior to test pumping, the static water level at this well was 24.6 feet below ground level or approximately Elevation 573 feet.

On November 11, 1986, subsequent to development and prior to test pumping, the static water level at this well was 24.6 feet below ground level or approximately Elevation 573 feet.

Sieve analyses at well No. 436 were performed on 11 soil samples collected between 39 and 61 feet. According to the sieve data, the formation consisted of predominantly medium sand size particles or larger.

Water Supply Well No. 444

Well No. 444 is located generally at the midpoint of the island, approximately 500 feet from well Nos. 443 to the west and 445 to the east. The well was completed in January 1987 to a total depth of approximately 69 feet below land surface. Subsurface conditions at the well are generally as follows:

0-26 feet	-	Clay
26-38 feet	-	Clay and gravel
38-42 feet	-	Clay and gravel, sandy towards bottom
42-59 feet	-	Sand and gravel
59-69 feet	-	Silty shale

Well No. 444 was drilled as a 30-inch diameter borehole. The well is equipped with a 20-inch diameter, 75 slot stainless steel screen which lies between 46 and 58 feet below ground. A 20-inch diameter steel casing extends to the land surface. The bottom of the screen is not plugged and has approximately 10 feet of 20-inch diameter steel casing welded to it. A steel plate is welded to the bottom of this 10-foot extension. A Parry No. 4 quartz sand was used to pack the annular space between the borehole and 20-inch diameter inner casing.

The static water level on April 4, 1987 was 17.7 feet below ground level or approximately Elevation 575 feet. This was subsequent to developing the well and prior to test pumping.

Sieve analyses were performed on eight soil samples collected from 33 to 59 feet below ground. The sieve data indicates that between 45 and 59 feet, the formation consists of predominantly medium sand and sized particles or larger. From 33 to 45 feet, the particle size is somewhat finer.

Water Supply Well No. 445

Well No. 445 is located generally at the midpoint of the island, approximately 500 feet from well Nos. 444 to the west and 446 to the east. In February 1987 drilling was completed at well No. 445 to a depth of approximately 68 feet below ground level. Subsurface conditions at the well are generally as follows:

0-16 feet	-	Silty clay with sand and gravel
16-25 feet	-	Clay with trace of sand and gravel
25-34 feet	-	Sand and gravel with trace of silty clay
34-58 feet	-	Sand and gravel
58-64 feet	-	Shale
64-68 feet	-	Silty shale

Well No. 445 was drilled as a 30-inch diameter borehole. The well is equipped with 20-inch diameter steel casing to a depth of 46 feet below ground. From 46 to 58 feet below ground, the well is equipped with 20-inch diameter, 75-slot stainless steel screen. Welded to the bottom of the screen is approximately 10 feet of 20-inch diameter steel casing with a steel plate welded to the lower end. A gravel pack of Parry No. 4 quartz sand was placed in the annular space between the borehole and inner casing.

The static water level on April 10, 1987, prior to test pumping and subsequent to development, was 14.1 feet below ground or approximately Elevation 586 feet.

Sieve analyses were performed on eight soil samples collected between 36 and 59 feet. The samples consisted predominantly of medium sand sized particles or larger.

Water Supply Well No. 446

Well No. 446 is located generally at the midpoint of the island, approximately 500 feet east of well No. 445. This well is the easternmost water supply well on the island. Well No. 446 was completed in January 1988 to a total depth of 64 feet below ground. Subsurface conditions at the well are generally as follows:

0-15 feet	-	Silty clay and some gravel
15-25 feet	-	Clay and gravel
25-30 feet	-	Gravel and some clay
30-50 feet	-	Sand and gravel
50-58 feet	-	Sand and gravel
58-59 feet	-	Sand and gravel, chunks of sandstone
59-63 feet	-	Cemented sand and gravel
63-64 feet	-	Sandstone

Well No. 446 was drilled as a 30-inch diameter borehole. The well is equipped with 20-inch diameter steel casing to a depth of 46 feet below ground. A 13-foot, 115-slot stainless steel screen is located from approximately 46 to 59 feet below ground level. The middle portion of the screen, from 49 to 53 feet, is blank and not exposed to the aquifer. Welded to the bottom of the screen, is a 10-foot section of 20-inch diameter steel casing with a steel plate welded to the lower end. A gravel pack of Parry No. 10 quartz sand was installed in the annular space between the borehole and inner casing.

Immediately preceding the pump test on, October 28, 1987, the static water level in well No. 446 was 22.7 feet below ground or approximately Elevation 586 feet.

Sieve analyses at well No. 446 were performed on 14 soil samples collected from ground level to top of bedrock. Samples collected from 45 to 60 feet below ground indicate that the formation is predominantly medium sized sand particles or larger. From ground level to 45 feet, the data indicates the formation is predominantly fine sand size or smaller.

Test Well 'R'

Test well 'R' was drilled to a total depth of 62 feet. The well was completed in March 1987. This test well is located approximately 35 feet from well No. 446. Test well 'R' was drilled to determine subsurface conditions at well No. 446 prior to drilling the larger diameter water well. Subsurface conditions at this well were generally as follows:

0-20 feet	-	Silty clay
20-35 feet	-	Sand and gravel, trace of silty clay
35-62 feet	-	Sand and gravel, fine to coarse

The well is equipped with 48 feet of 8 inch diameter steel casing and a 15-foot section of 7.5-inch diameter stainless steel screen. The upper 12 feet of the screen is 100 slot and the lower 3 feet is 20 slot. The bottom of the screen is affixed with a welded steel plate. No gravel pack was placed at the well.

Prior to the pump test conducted on May 4, 1987, the static water level in test Well 'R' was 23.4 feet below ground level or approximately Elevation 587 feet.

Sieve analyses were conducted on five soil samples collected from 35 to 62 feet below land surface. Data from the samples collected between 35 and 60 feet indicates the formation is predominantly medium sand sized particles, or larger. The lower 2 feet of the formation, 60 to 62 feet below ground, consisted of a much higher percentage of fine silt and sand sized particles.

A summary of well screen specifications is given in Table 1.

Table 1

Du Pont Blennerhassett Island Well Field
Summary of Well Screen Specifications
Burgess & Niple, Limited

Well No.	Length and Diameter of Screen	Screened Interval Below Ground	Gravel Pack	Screen Slot Size	Screen Wire Size
436	12' length, 20" diameter	44'-56'	Best No. 430	90 slot	0.103"
444	12' length, 20" diameter	46'-58'	Parry No. 4	75 slot	0.158"
445	12' length, 20" diameter	46'-58'	Parry No. 4	75 slot	0.158"
446	13' length 20" diameter	46'-59'	Parry No. 10	a) 46'-49', 115 slot b) 49'-53', blank c) 53'-59', 115 slot	0.130"
'R'	15' length, 7.5" diameter	47'-62'	None	a) upper 12'-100 slot b) lower 3'-20 slot	0.090"

PUMPING TESTS

The intent of the pumping tests was to determine specific well and aquifer characteristics and to ascertain if proposed pumps to be installed at each well could achieve the desired design rates. The desired pumping rates as determined by du Pont were:

Well No.	Design Rate in gpm
436	350
444	500
445	500
446	500

Test pumping conducted at each well would determine if the desired design rates were feasible.

Two separate pumping tests were conducted at well Nos. 436, 444, 445, and 446. The first test was a 12-hour variable rate test and the second was a 24-hour constant rate test. At test Well 'R', a variable rate test of 8 hours duration was conducted. During the pumping tests water levels were recorded by the use of battery powered water level indicators, Steven's Type F automatic recorders, or automatic pressure transducers.

The variable rate pumping test (step-drawdown) provides data from which a determination of well loss can be made. Well loss is a component of drawdown in a production well and is due to turbulent flow of water generated through the well screen and inside the casing. During variable rate tests, a well is pumped at different discharge rates at equal time intervals.

The well loss coefficient (C) can be calculated by the following equation from Jacob (1946):

$$C = \frac{(Sn/Qn - Sn\text{-}1/Qn\text{-}1)}{(Qn\text{-}1 + Qn)}$$

where

C = well loss coefficient, in sec^2/ft^5
Sn = increment of drawdown for pumping rate number n, in feet
Sn-1 = increment of drawdown for pumping rate number n-1, in feet
Qn = increment in discharge rate for pumping rate number n, in cfs
Qn-1 = increment in discharge for pumping rate number n-1, in cfs
n = pumping rate number on step (1, 2, or 3)

The value of the well loss coefficient (C), provides an indication of proper well development. The C values reported in this text represent an average of those C values calculated at each step increment during the variable rate test. Average C values less than 2.0 sec^2/ft^5 indicate a properly developed well, while those values between 2.0 and 5.0 sec^2/ft^5 indicate less adequate development. C values greater than 5.0 sec^2/ft^5 may substantiate redevelopment or rehabilitation of the well.

The constant rate pumping test is used to determine transmissivity, storage coefficient, and specific capacity. Various methods are available for calculation of aquifer characteristics. The method used for this analysis was developed by Cooper and Jacob (1946). It is estimated that steady state conditions prevailed for the data. Transmissivity is calculated by the use of the equation:

$$T = \frac{528\ Q}{\Delta s}$$

where

T = transmissivity in gallons per day per foot (gpd/ft)
Q = discharge rate in gallons per minute (gpm)
Δs = slope of the plotted line expressed as the change in drawdown in feet between any two values on the scale whose ratio is 10

The coefficient of storage is calculated with the equation:

$$S = \frac{0.3\ Tt}{r_o^2}$$

where

S = coefficient of storage (dimensionless)
T = transmissivity in gpd/ft
t_2 = time in days since pumping began
r_o^2 = intercept of the extended straight line at zero drawdown (in feet) showing the radius of approximate drawdown

Specific capacity is calculated as follows:

$$SC = \frac{Q}{dd}$$

where

SC = specific capacity at end of 24-hour test
Q = pumping rate in gpm
dd = drawdown at end of test (in feet)

A discussion of test pumping performed at the wells is presented as follows.

Pumping Test - Well No. 436

The first pumping test conducted at well No. 436 was the variable rate test performed on November 12, 1986. Pumping started at 0826 hours and concluded at 1830 hours the same day. The variable rate test was a six step test of 120-minute duration for each rate. The rates were 200 gallons per minute (gpm), 250 gpm, 300 gpm, 350 gpm, 400 gpm, and 500 gpm.

During the variable rate test, pumping well No. 436, observation well Nos. TW 437, abandoned well No. 436, TW 'P,' and Ohio River stage were monitored. Test well TW 437 is located approximately 15 feet from existing du Pont well No. 437, abandoned well No. 436 is approximately 75 feet from new well No. 436, and TW 'P' is roughly 578 feet from new well No. 436. A hydrograph for this test is shown in Appendix A. Also shown on the hydrograph is the total cumulative flow from existing operating du Pont wells on Blennerhassett Island during the test. Flow from existing du Pont wells varied between approximately 2,250 and 4,300 gpm.

As can be seen on the hydrograph, groundwater levels stabilized during each rate except during the second step in which the water level increased. It is believed this may be due to turning off a pump at a nearby production well.

Recovery was rapid at well No. 436 after pumping stopped. During the pumping test, the river stage rose about 0.25 feet. This did not have any perceptible effect on groundwater levels.

An evaluation of the well loss coefficient (C) was made based on the step test data. The average C value was calculated as 2.05 sec^2/ft^5. This value is less than the maximum of 5.0 sec^2/ft^5 for proper well development, thus indicating an efficient well.

The second test conducted was the 24-hour constant rate test. The test was begun at 1300 hours on November 13, 1986 and terminated at 1300 hours on November 14, 1986. The well was pumped at a constant rate of 430 gpm. During the test, existing island wells were flowing at 2,300 to 4,400 gpm. Observation wells used to monitor water levels were the same as during the step test. The hydrograph for the constant rate test is shown in Appendix A. Maximum observed drawdowns at well No. 436 and the observations wells were as follows:

Well 436	=	16.9 feet
TW 'P'	=	2.3 feet
Well 436 (Aban.)	=	4.0 feet
TW 437	=	1.7 feet

Water levels in Well 436 recovered to within 0.75 feet of static levels approximately one hour after cessation of pumping. During the test, the river stage fell approximately 0.50 feet.

The aquifer transmissivity determined by distance-drawdown data was calculated to be approximately 37,000 gpd/ft. This data is shown in Appendix A. The calculated radius of influence after 1 days pumpage, where no perceptable drawdown will occur as a result of pumpage from Well 436, was determined to be approximately 800 feet. At a design rate of 350 gpm, for 1

day and 180 day continuous pumpage, the calculated radius of influence is approximately 800 feet and 10,000 feet, respectively. The specific capacity of the well was 24 gpm/ft dd.

Based on the test pumping, well No. 436 can yield the desired design rate of 350 gpm.

A summary of pumping test data is shown in Table 2.

Table 2

du Pont Blennerhassett Island Well Field
Test Pumping Data for Well No. 436
Burgess & Niple, Limited

Pumping Test	Date	Discharge Rate (gpm)	Elasped Time (minutes)	Ground-water Elevation (feet)	Drawdown (feet)
Variable Rate	11-12-86				
Static		0	0	572.7	0
Step 1		200	120	563.2	9.5
Step 2		250	240	563.7	9.0
Step 3		300	360	562.0	10.7
Step 4		350	480	560.0	12.7
Step 5		400	600	558.0	14.7
Step 6		500	720	553.7	19.0
Constant Rate	11-13-86 and 11-14-86				
Static		0	0	572.8	0
Final		430	1,440	555.9	16.9

Pumping Test - Well No. 444

The first pumping test conducted at Well 444 was the variable rate pumping test performed on April 7, 1987. Pumping started at 0915 hours on the above date and concluded at 2115 hours the same day. The variable step test was a six-step test of 200, 250, 300, 350, 400, and 600 gpm. The duration of each step was approximately 120-minute duration.

During the variable rate pumping test, well No. 444, well No. 445, TW 443, and the river stage were monitored. Well No. 445 is approximately 475 feet from well No. 444, and TW 443 is roughly 25 feet from well No. 443. The hydrographs generated at TW 443, and pumping Well 444 are shown in Appendix B. Flow from existing du Pont wells on the island was approximately 4,000 gpm.

As can be seen on the hydrographs, groundwater levels increased slightly during each rate. This was due to an increase of approximately 2 feet in the river stage. The well loss coefficient was not evaluated due to the rise of the water table as affected by the Ohio River.

As shown on the hydrograph for well No. 444 and TW 443, recovery was rapid following cessation of pumping.

The second test conducted was the 24-hour constant rate test. The test commenced at 0945 hours on April 8, 1987 and terminated at 0945 hours on April 9, 1987. The well was pumped at a constant rate of 450 gpm. During this test existing island wells were flowing at approximately 4,000 gpm. Pumping Well 444, TW 443, TW 'O', and a test well at the river were monitored during the test. TW 'O' is approximately 25 feet from well No. 445 and the river TW is approximately 25 feet from well No. 444. The hydrographs for pumping Well 444 and TW 443 are given in Appendix B. The maximum observed drawdowns at Well 444 and the observation wells were as follows:

Well 444 = 7.1 feet
TW 443 = 0.8 feet
TW 'O' = 0.3 feet
TW at River = 0.6 feet

Water levels recovered to prepumping levels in a very short time after cessation of the test. During the constant rate test the river stage rose approximately 0.3 feet during the first 5 hours and then fell approximately 1.3 feet during the next 19 hours. This rise and fall in the river impacted the observed drawdown.

Distance-drawdown analysis was performed on data obtained from the constant rate test. The calculated transmissivity value was approximately 95,000 gpd/ft. The radius of influence at the 500 gpm design rate was estimated to be 600 feet for a 24-hour pumping period. For a 180-day pumping period at 500 gpm, the radius of influence was estimated to be 8,000 feet. The specific capacity of Well 444 after 24 hours pumping was 63 gpm/ft dd.

Aquifer parameters based on the constant rate test are of questionable validity due to the rise and fall in the Ohio River stage. However, the pumping test data indicates that well No. 444 can yield the desired design rate of 500 gpm.

A summary of pumping test data is shown in Table 3.

Table 3

du Pont Blennerhassett Island Well Field
Test Pumping Data for Well No. 444
Burgess & Niple, Limited

Pumping Test	Date	Discharge Rate (gpm)	Elasped Time (minutes)	Ground-water Elevation (feet)	Drawdown (feet)
Variable Rate	4-7-87				
Static		0	0	574.8	0
Step 1		200	120	572.3	2.5
Step 2		250	240	571.8	3.0
Step 3		300	360	571.1	3.7
Step 4		350	480	571.0	3.8
Step 5		400	600	570.4	4.4
Step 6		600	720	564.4	10.4
Constant Rate	4-8-87 and 4-9-87				
Static		0	0	577.4	0
Final		450	1,440	570.3	7.1

Pumping Test - Well No. 445

The variable rate pumping test was conducted at well No. 445 beginning at 0900 hours on April 10, 1987 and continued until 2100 hours the same day. The variable rate test was a six-step test with steps of 120 minutes duration each. The rates were 200, 300, 400, 500, 600, and 789 gpm.

During the variable rate pumping test well No. 445, TW 444, TW at river, TW 'O', and the Ohio river stage were monitored. TW 444 is located approximately 25 feet from well No. 445. The remaining observation wells have been previously located in earlier text. The hydrograph generated at well No. 445 is shown in Appendix C. Flow from existing du Pont wells on the island was approximately 4,000 gpm.

As can be seen on the hydrograph for well No. 445, groundwater levels stabilized during each rate indicating proper development. Following cessation of pumping, the groundwater level recovered rapidly. The river stage monitored during the variable rate test showed a slight increase. The amount of rise had no effect on groundwater elevations.

An evaluation of the well loss coefficient was made based on step test data. The average C value was calculated to be 1.34 sec^2/ft^5. This is below the approximate maximum limit (5.0 sec^2/ft^5) thus indicating a properly developed well.

The second test conducted was the constant rate test. The test began at 0830 hours on April 11, 1987 and continued until 0830 hours on April 12, 1987. The well was pumped at a constant rate of 600 gpm. During this test existing du Pont island wells were pumping at approximately 4,000 gpm. Observation points were TW 443, TW at river, TW 'O' and the river stage. The hydrographs generated at well No. 445 and TW 443 are given in Appendix C. The maximum observed drawdowns at pumping Well 445 and the observation wells were as follows:

Well 445	=	8.1 feet
TW 443	=	1.0 feet
TW 'O'	=	2.6 feet

Within approximately 3 minutes after termination of pumping, the water level in Well 445 rose to within 1 foot of the prepumping level. After 3 hours, the water level was within 6 inches of the prepumping level.

During the test, the river stage showed a slight increase, although not enough to significantly affect groundwater levels.

The aquifer transmissivity determined by distance-drawdown data shown in Appendix C was approximately 104,000 gpd/ft. The calculated radius of influence after 1 day pumpage was 370 feet. For the design rate of 500 gpm for 1 day and 180 days continuous pumping, the calculated radius of influence is approximately 370 feet and 4,000 feet, respectively. Specific capacity of well No. 445 at the end of the test was 75 gpm/ftdd.

Based on the test pumping data, well No. 445 can yield the desired design rate of 500 gpm.

A summmary of pumping test data is shown in Table 4.

Table 4

du Pont Blennerhassett Island Well Field
Test Pumping Data for Well No. 445
Burgess & Niple, Limited

Pumping Test	Date	Discharge Rate (gpm)	Elasped Time (minutes)	Water Level (feet)	Drawdown (feet)
Variable Rate	4-10-87				
Static		0	0	586.1	0
Step 1		200	120	584.1	2.0
Step 2		300	120	582.9	3.2
Step 3		400	120	581.6	4.5
Step 4		500	120	580.2	5.9
Step 5		600	120	578.6	7.5
Step 6		789	167	--	--
Constant Rate	4-11-87 and 4-12-87				
Static		0	0	585.4	0
Final		600	1,440	577.4	8.0

Pumping Test - Well 'R'

The variable rate pumping test conducted at Well 'R' started at 1045 hours on May 9, 1987 and terminated at 1845 hours the same day. The variable rate test consisted of four steps of 60 minutes each at rates of 305, 401, 500, and 600 gpm and a final step of 240-minutes duration at 636 gpm.

During the variable rate test groundwater levels at TW 'R', TW 445, TW 444, and Ohio River stage were monitored. The hydrograph for TW 'R' is shown in Appendix D.

As can be seen on the hydrograph, groundwater levels stabilized during each rate indicating adequate development. After termination of pumping, water level recovered to 0.1 feet of the prepumping water level in approximately 45 minutes. The river stage during the test remained constant.

The average C value of the well loss constant was evaluated based on data obtained during the step test. This value was calculated as 3.42 sec^2/ft^5. This is an acceptable value for a test well.

Table 5 shows the pumping test data for the variable rate test.

Table 5

du Pont Biennerhassett Island Well Field
Test Pumping Data for Well No. 'R'
Burgess & Niple, Limited

Pumping Test	Date	Discharge Rate (gpm)	Elasped Time (minutes)	Ground-water Elevation (feet)	Drawdown (feet)
Variable Rate	5-9-87				
Static		0	0	586.90	0
Step 1		305	60	584.50	2.40
Step 2		401	120	583.10	3.80
Step 3		500	180	581.30	5.60
Step 4		600	240	579.10	7.80

Pumping Test - Well 446

The first test conducted was the variable rate pumping test. Pumping started at 0745 hours on October 28, 1987 and ended at 1945 hours the same day. The first two steps were of 240-minutes duration, at rates of 200 and 394 gpm, respectively. The third step was of 180-minutes duration at 608 gpm. The final step was pumped for 60 minutes at 800 gpm.

During the variable rate test, TW 'N', TW 'R', and TW 'O' were used as observation wells to monitor water level changes. TW 'N' is located 510 feet southeast of PW 446 and TW 'O' is located 521 feet west of PW 446. A

hydrograph for this test is shown in Appendix E. Shown on the hydrograph is the total cumulative flow from existing du Pont wells on Blennerhassett Island. According to the data, the du Pont wells were pumping at approximately 1,500 gpm. As can be seen on the hydrograph, groundwater levels stabilized during each step indicating proper development. During the test, the river stage increased 0.25 feet. This rise did not perceptibly affect groundwater levels during the test. At termination of pumping the water levels rose to the original prepumping level within 30 minutes, and to the original level within 60 minutes.

An evaluation of the well loss coefficient was made based on step test data. The average C value was determined to be 3.64 sec^2/ft^5, which indicates somewhat less than adequate development. However, because of the inherent analysis error, redevelopment of well No. 446 is not deemed necessary.

The second test conducted was a 24-hour constant rate pumping test. The test began at 0930 hours on October 29, 1987 and continued until 0930 hours, October 30, 1987. The well was pumped at a constant rate of 620 gpm. During the test, TW 'N', TW 'R', and TW 'O' were used as observation wells for water level measurements. A hydrograph for this test is given in Appendix E. Also shown on the hydrograph is the river stage and total cumulative flow from existing du Pont wells on Blennerhassett Island. The du Pont wells were pumping at approximately 1,500 gpm. As seen from the hydrograph, the river stage remained constant throughout the test. The maximum observed drawdowns during the test at Well 446 and other observation wells are as follows:

Well 446	=	13.7 feet
TW 'N'	=	0 feet
TW 'O'	=	0.25 feet
TW 'R'	=	1.0 feet

The water level at well 446 recovered to the prepumping static level approximately 1 hour following cessation of pumping.

The aquifer transmissivity determined by distance-drawdown data, shown in Appendix E, was calculated to be approximately 42,000 gpd/ft. The radius of influence at the design rate of 500 gpm was calculated to be 47 feet for 1 day continuous pumping and 680 feet for 180 days of pumpage. The specific capacity of the well was 47 gpm/ft dd.

Based on test pumping data well No. 446 can yield the desired design rate of 500 gpm.

A summary of pumping test data is shown in Table 6.

Table 6

du Pont Blennerhassett Island Well Field
Test Pumping Data for Well No. 446
Burgess & Niple, Limited

Pumping Test	Date	Discharge Rate (gpm)	Elasped Time (minutes)	Ground-water Elevation (feet)	Drawdown (feet)
Variable Rate	10-18-87				
Static		0	0	586.6	0
Step 1		200	240	583.2	3.4
Step 2		394	480	580.0	6.6
Step 3		608	660	574.6	12.0
Step 4		800	780	568.8	17.8
Constant Rate	10-29-87 and 10-30-87				
Static		0	0	586.7	0
Final		446	1,440	573.0	13.7

WATER QUALITY

Groundwater samples from the test pumped wells were collected and presented to du Pont for analysis. Samples were taken at various times during the step test at TW 'R' and during constant rate tests at Well Nos. 436, 444, 445, and 446. Bottles for analysis were furnished by du Pont. Water quality parameters to be assayed were selected by du Pont. Results of water quality analysis are shown in Appendix H.

At the request of du Pont officials, an evaluation of analyses of water samples collected at TW 'O' and TW 'Q' are also presented herein. The water samples from TW 'O' and TW 'Q' were not collected as a part of this project.

Findings and a discussion of water quality analyses are discussed below.

Well No. 436

Three water samples were collected during the constant rate test, at 1400 hours on November 13, 1986; 0102 hours on November 14, 1986; and 1200 hours on November 14, 1986, at the end of the test. Results of the analyses are summarized on page H-1 of the Appendix.

In reference to parameters of U.S. EPA Primary and Secondary Drinking Water Standards, all selected parameters were below acceptable limits except for manganese. Manganese was detected at 1.10 mg/l, 1.0 mg/l, and 0.95 mg/l in the three analyzed samples. The drinking water standard for manganese is 0.05 mg/l. All other tested parameters were within normal ranges of concentrations for a sand and gravel aquifer.

Results for all parameters did not vary appreciably from the beginning of the pumping test to the end.

Well No. 444

Three water samples were collected during the constant rate test, at 0945 hours on April 8, 1987; 1130 hours the same day; and 0915 hours on April 9, 1987 at the conclusion of the test. Results of the analyses are summarized on page H-5 of the Appendix.

In reference to Primary and Secondary Drinking Water Standards, all analyzed parameters were below acceptable limits. Likewise, all tested parameters were within normal ranges of concentration for a sand and gravel aquifer.

Results for all parameters did not vary appreciably from the beginning of the pumping test to the end.

Well No. 445

Three water samples were collected during test pumping, at 0845 hours and approximately 1100 hours on April 11, 1987; and at 0815 hours on April 12, 1987, at the conclusion of the pumping test. Results of the analyses are summarized on page H-5 of the Appendix.

In reference to Primary and Secondary Drinking Water Standards, all selected parameters were well below the recommended limits and were within normal ranges of concentrations for a sand and gravel aquifer.

There was no appreciable change in water quality during the course of the test.

Well No. 446

Three water samples were collected during the pumping test at 1000 hours on October 29, 1987; at 2200 hours on October 29, 1987; and at 0900 hours on October 30, 1987, at the termination of the test. Results of the analyses are summarized on page H-12 of the Appendix.

In reference to Primary and Secondary Drinking Water Standards, all analyzed parameters were within acceptable limits except manganese which was detected at 0.3 mg/l for all three samples. All other tested parameters were within normal ranges of concentrations for a sand and gravel aquifer.

There was no appreciable increase or decrease in concentrations of the parameters during the course of the test.

Test Well 'R'

Three water samples were collected, at 1300 hours, 1100 hours, and 1800 hours, on May 4, 1987. Results of the analyses are shown on pages H-16, H-17, and H-18 of the Appendix.

In reference to Primary and Secondary Drinking Water Standards, all analyzed parameters were below the recommended limits, except for manganese which was detected at 0.50, 0.75, and 0.60 mg/l for the three samples. All other tested parameters were within normal ranges of concentrations for a sand and gravel aquifer.

Results for all parameters did not vary appreciably from the beginning of the pumping test to the end.

Test Well 'O'

Two water samples were collected on May 16, 1986. The first sample was taken at 0915 hours and the final sample was taken at 1015 hours. Results of the analyses are shown on pages H-19 and H-20 of the Appendix.

In reference to Primary and Secondary Drinking Water Standards, all analyzed parameters were below the recommended limits. Likewise, all other tested parameters were within normal ranges of concentrations for a sand and gravel aquifer.

The groundwater showed no significant change in analyzed parameters based on the two samples.

Test Well 'Q'

Three water samples were collected, at 1500 hours May 13, 1986, at 1315 hours, and 2000 hours on May 14, 1986. Results of the analyses are shown on pages H-21, H-22, and H-23 of the Appendix.

In reference to Primary and Secondary Drinking Water Standards, all analyzed parameters were below the recommended limits, and within normal ranges of concentrations for a sand and gravel aquifer.

The overall groundwater quality indicated no significant change in the analyzed parameters based on the three samples.

VIDEO SURVEY

A closed circuit video camera survey was conducted at well Nos. 436, 444, 445, and 446. The video survey was witnessed by representatives of du Pont and Burgess & Niple, Limited. The purpose of the survey was to inspect the interior of the casings and the screens.

The first video survey was conducted at well No. 436 on January 7, 1987. The top of the screen was noted as 43.6 feet below the top of the casing. The upper 2.5 to 3 feet of the screen was heavily coated with iron bacteria. Iron bacteria forms in a well by enzymatically catalyzing the oxidation of iron, precipitating hydrated ferric hydroxide. The lower portion of the screen was not coated with the iron bacteria. The well was subsequently treated for the iron bacteria and the blockage was removed.

Well No. 444 was video surveyed on April 21, 1987. The static water level was observed to be 15 feet. The quality of the video was not perfectly clear, however, the casing and screen appeared to be in good condition.

Well No. 445 was initially video surveyed on April 21, 1987. The static water level was observed to be 16 feet. The picture quality was not clear, but the inspection indicated that the screen and casing were in reasonable condition. On May 8, 1987 well No. 445 was resurveyed and the casing and screen were again observed to be in good condition.

Well No. 446 was video surveyed on November 4, 1987. Static water elevation was noted at 23 feet below the top of the casing. Large particle matter and turbidity was observed throughout the well. The picture quality was poor but the survey indicated that the screen and casing were in acceptable condition.

PERMANENT WELL PUMPS

Permanent well pumps have been installed in well Nos. 436, 444, 445, and 446. Data pertaining to each pump is shown in Appendix I. Data shown in the Appendix was supplied by the pump installation contractor. The information includes installation drawings for all wells, pump installation reports for well Nos. 436 and 446, and pump and motor detail drawings for well Nos. 444 and 445.

Byron Jackson pumps and motors were installed in each well. All motors have the same operating conditions as shown below:

125 horsepower
1,760 revolutions per minute
2,300 volts
3 phase
60 cycle

The pump bowl assembly installed in well No. 436 was a 10-inch GM eight-stage unit. The pump has a capacity of 350 gpm at 396 feet total dynamic head. Approximately 31 feet of 8-inch pump column was installed.

The pump bowl assemblies installed in well Nos. 444, 445, and 446 were 10-inch MQ-H, eight-stage units. The pumps have a capacity of 500 gpm at 396 feet total dynamic head. Approximate lengths of 8-inch column pipe installed at each well are shown below:

Well	Column Pipe Length in Feet
444	35
445	34
446	28

SUMMARY

The du Pont water supply wells on Blennerhassett Island are developed in sands and gravels underlying the Ohio River. Bedrock beneath the unconsolidated materials is shale and sandstone belonging to the Permian system. The total thickness of the unconsolidated formation at well Nos. 436, 444, 445, and 446 varied between 58 and 62 feet. The upper portion of the formation is comprised of generally silts and clays while the lower portion is permeable sands and gravels from which an adequate supply of groundwater can be obtained.

The four water supply wells developed as a part of this project were drilled as 30-inch diameter boreholes with 20-inch diameter steel casing and stainless steel screen. Quartz gravel was placed in the annular space between the borehole and 20-inch casing.

Pumping tests were conducted at the newly drilled wells to determine specific well and aquifer characteristics. Calculated well transmissivities varied between 37,000 gpd/ft and 104,000 gpd/ft, as calculated by distance-drawdown method.

The specific capacity of the four tested water supply wells as measured at the end of the constant rate test varied between 25 gpm/ft dd and 75 gpm/ft dd.

At termination of pumping following the tests, the groundwater recovery was rapid indicating adequate aquifer recharge and well development.

Based on test pumping conducted at well Nos. 436, 444, 445, and 446, the wells can yield the design capacity desired by du Pont. The desired flow rates are shown below:

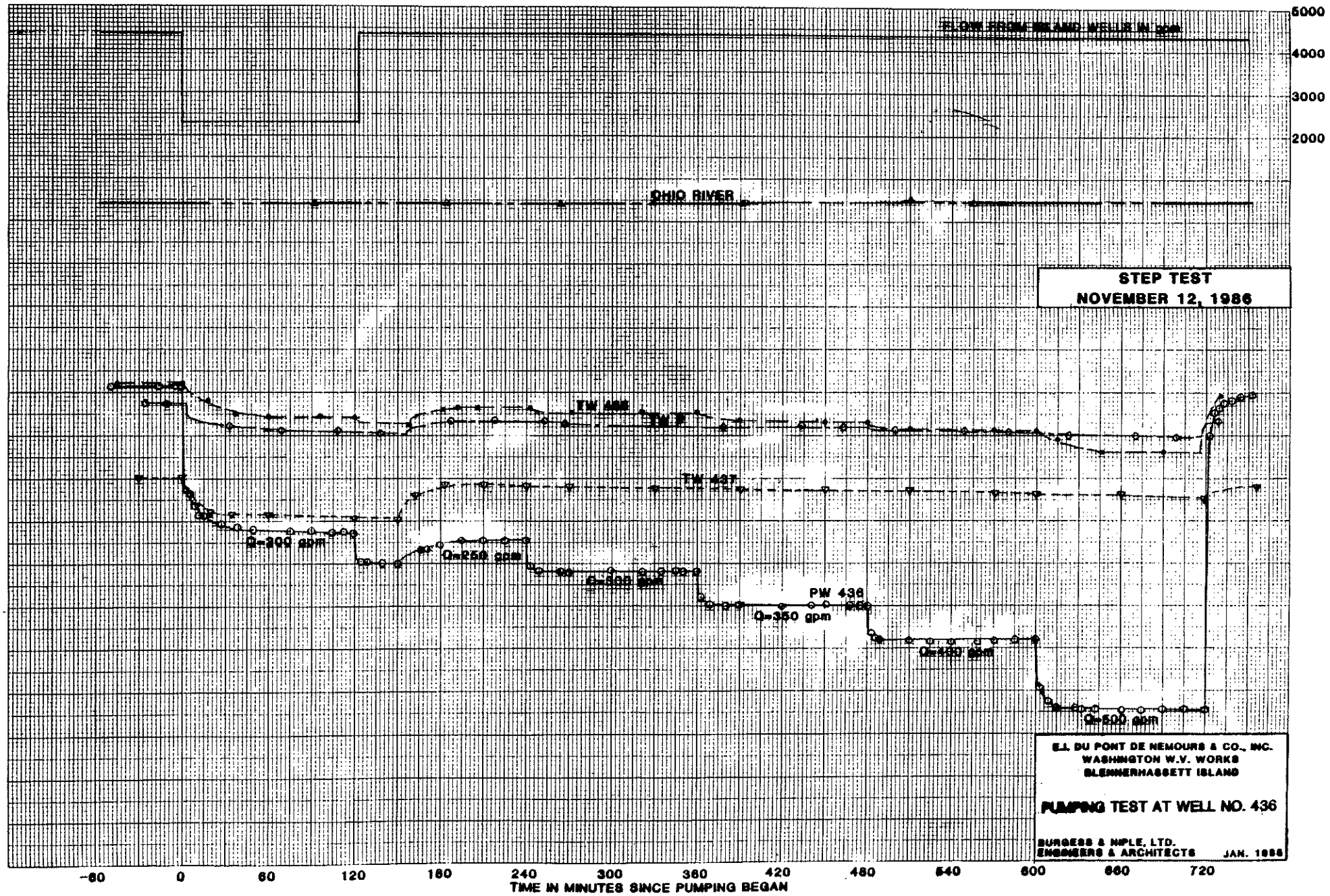
Well No.	Rate in gpm
436	350
444	500
445	500
446	500

Water quality analysis at the tested sites indicated only manganese of the assayed parameters exceeded U.S. EPA Secondary Drinking Water Standards. Manganese is a regulated parameter for aesthetic reasons and not health reasons.

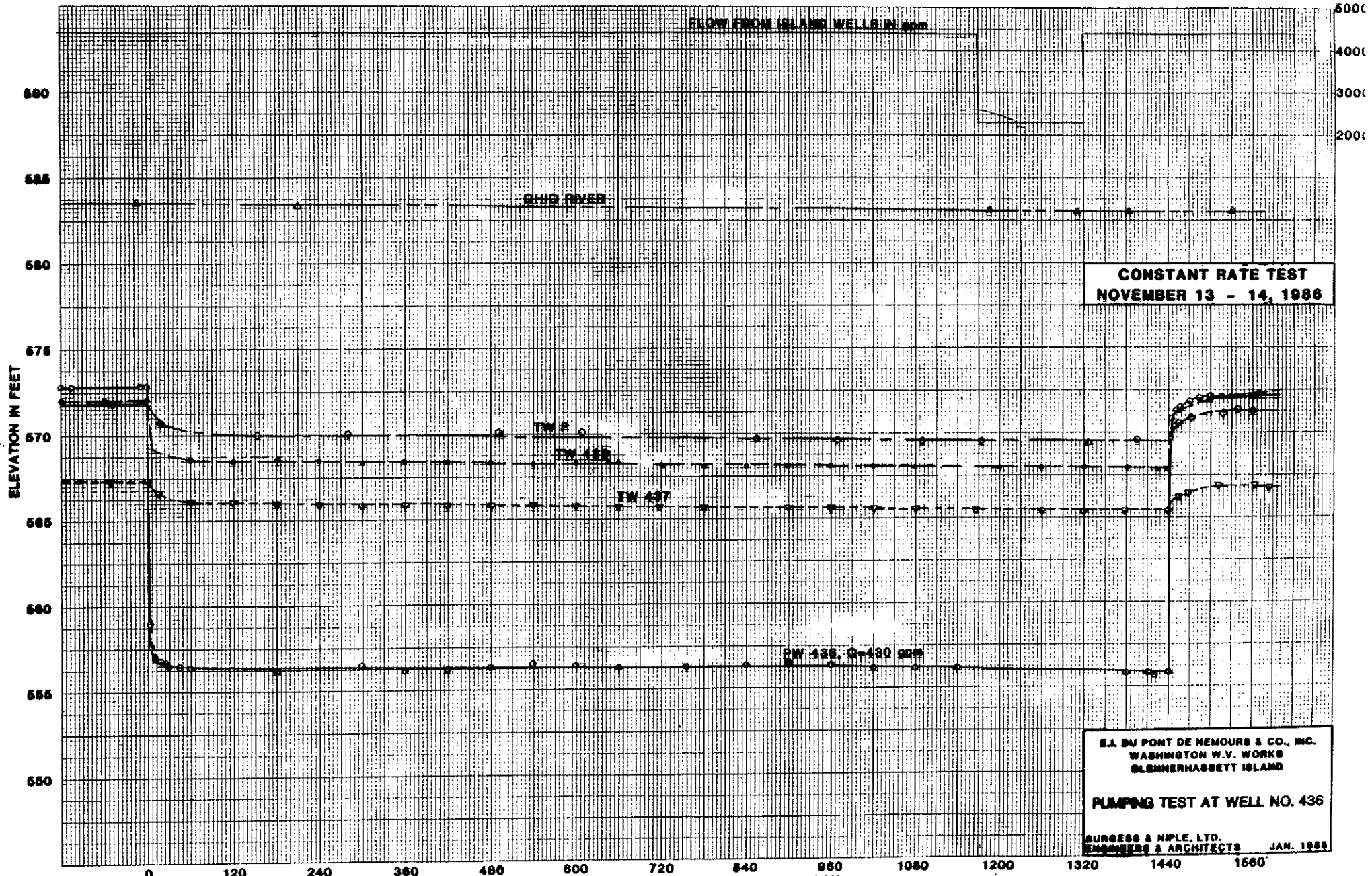
Closed circuit video camera surveys were conducted following test pumping at well Nos. 436, 444, 445, and 446. The survey at well No. 436 indicated that the screen was heavily coated with iron bacteria. The well was treated for the iron bacteria and the blockage was removed. The video survey of the remaining three wells indicated the screen and well interiors at all sites were acceptable.

APPENDIX A

WELL NO. 436; PUMPING TEST HYDROGRAPHS AND DISTANCE - DRAWDOWN GRAPHS

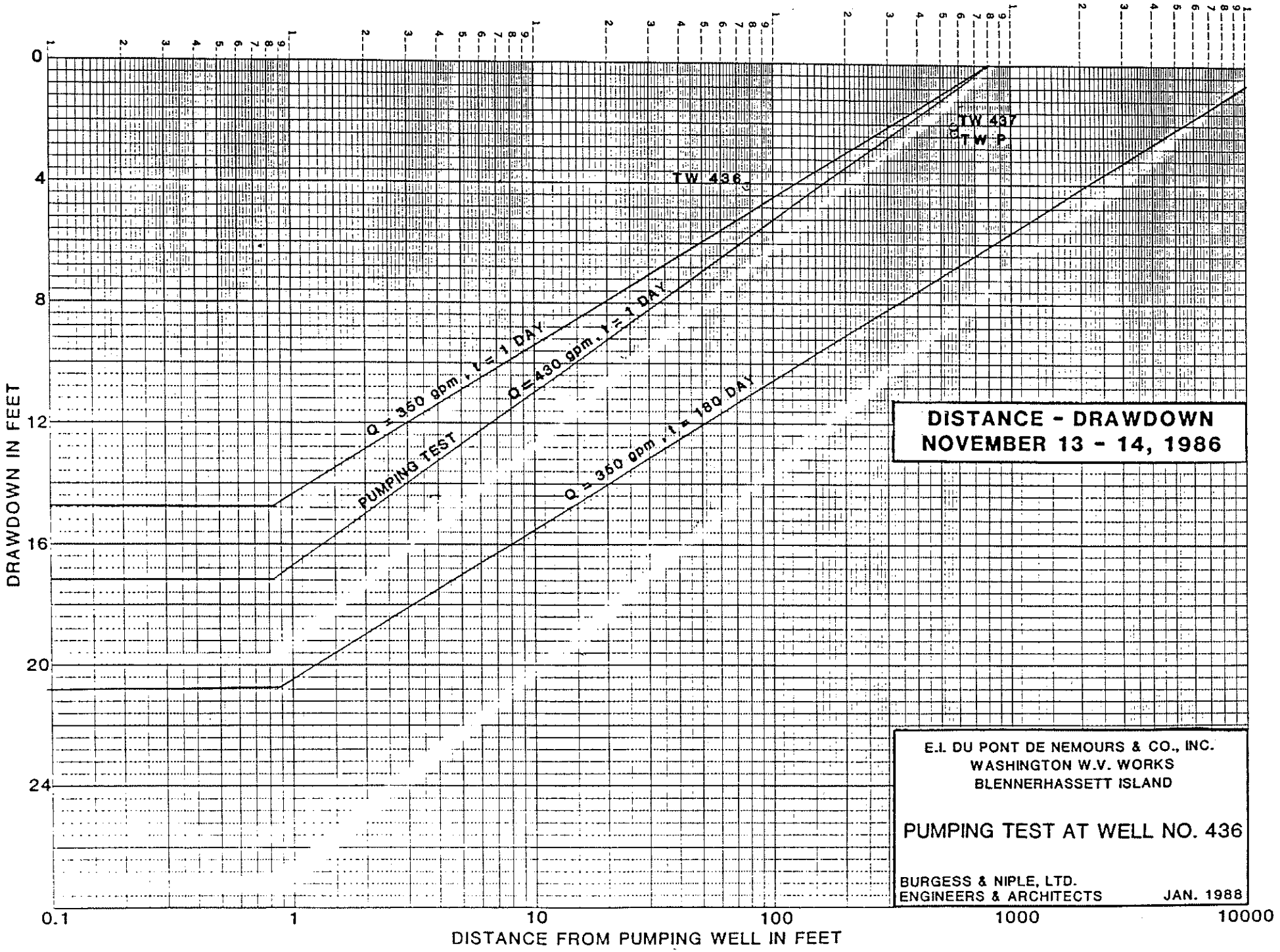

FLOW FROM ISLAND WELLS IN gpm
5000
4000
3000
2000
590
585
580
575
570
565
560
555
550
OHIO RIVER
STEP TEST
NOVEMBER 12, 1986
TW 448
TW 447
Q=200 gpm
Q=250 gpm
PW 436
Q=350 gpm
Q=400 gpm
Q=500 gpm
E.I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON W.V. WORKS
BELLEVILLE ISLAND
PUMPING TEST AT WELL NO. 436
BURGESS & NIPLE, LTD.
ENGINEERS & ARCHITECTS
JAN. 1986
ELEVATION IN FEET
-60
0
60
120
180
240
300
360
420
480
540
600
660
720
TIME IN MINUTES SINCE PUMPING BEGAN

A-1


FLOW FROM ISLAND WELLS IN gpm
5000
4000
3000
2000
590
585
580
575
570
565
560
555
550
OHIO RIVER
TW 4
TW 435
TW 437
PW 436, Q=430 gpm
ELEVATION IN FEET
0
120
240
360
480
600
720
840
960
1080
1200
1320
1440
1560
TIME IN MINUTES SINCE PUMPING BEGAN
CONSTANT RATE TEST
NOVEMBER 13 - 14, 1986
E.I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON W.V. WORKS
BLENNERHASSETT ISLAND
PUMPING TEST AT WELL NO. 436
BURGESS & NIPLE, LTD.
ENGINEERS & ARCHITECTS
JAN. 1988

K•Σ SEMI-LOGARITHMIC 5 CYCLES X 70 DIVIS
KEUFFEL & ESSER CO. MADE IN U.S.A.

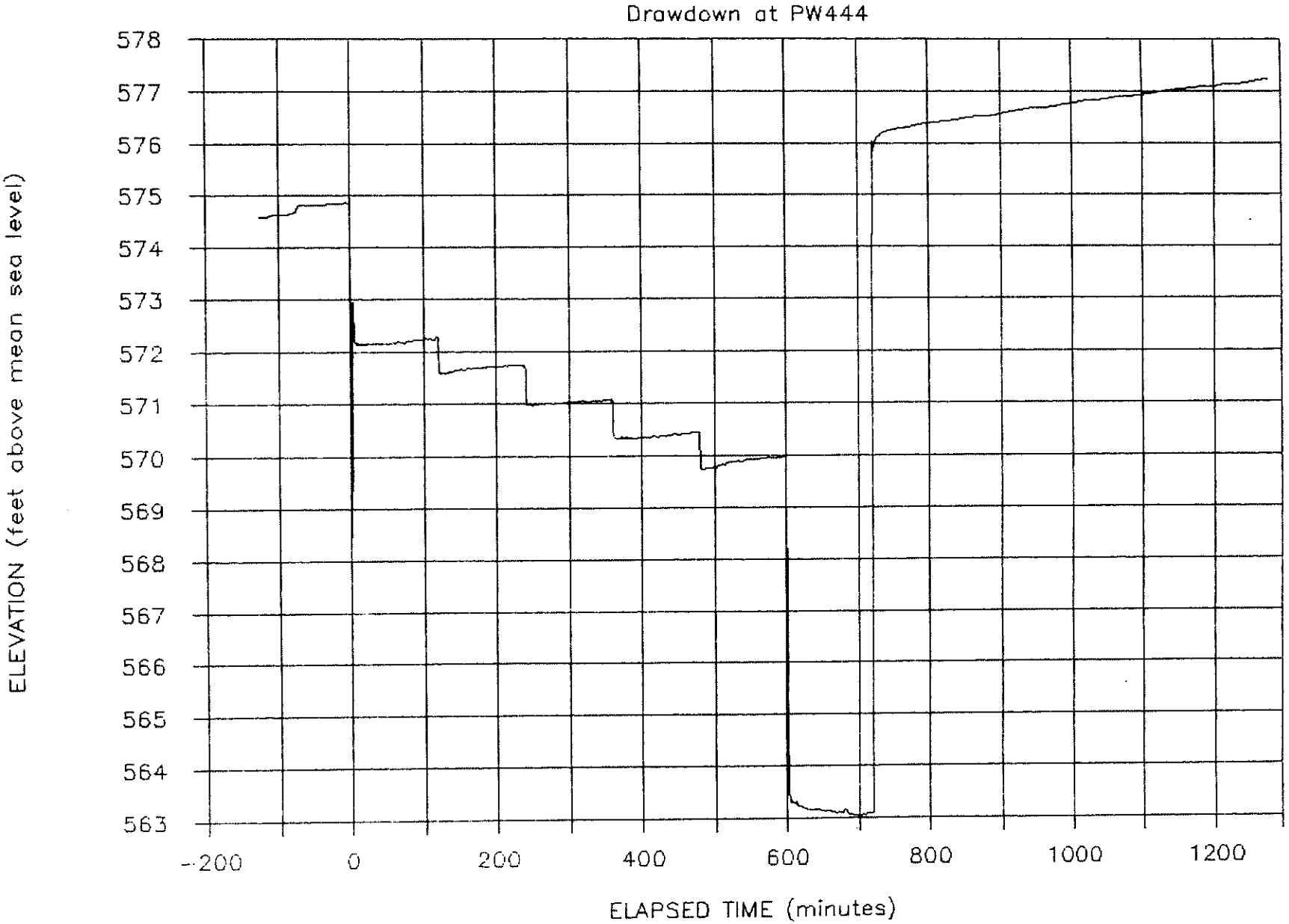
46 6213

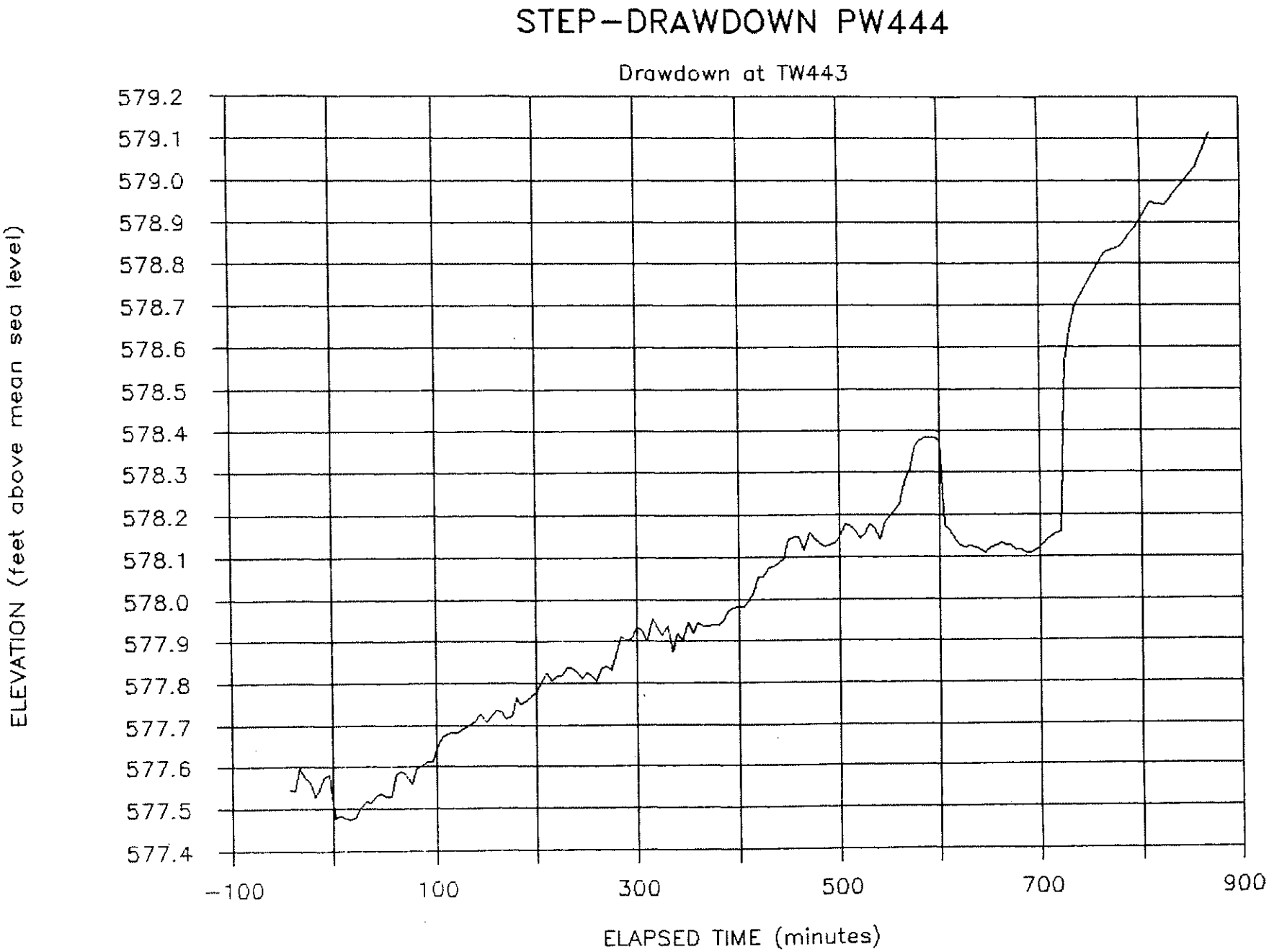


APPENDIX B

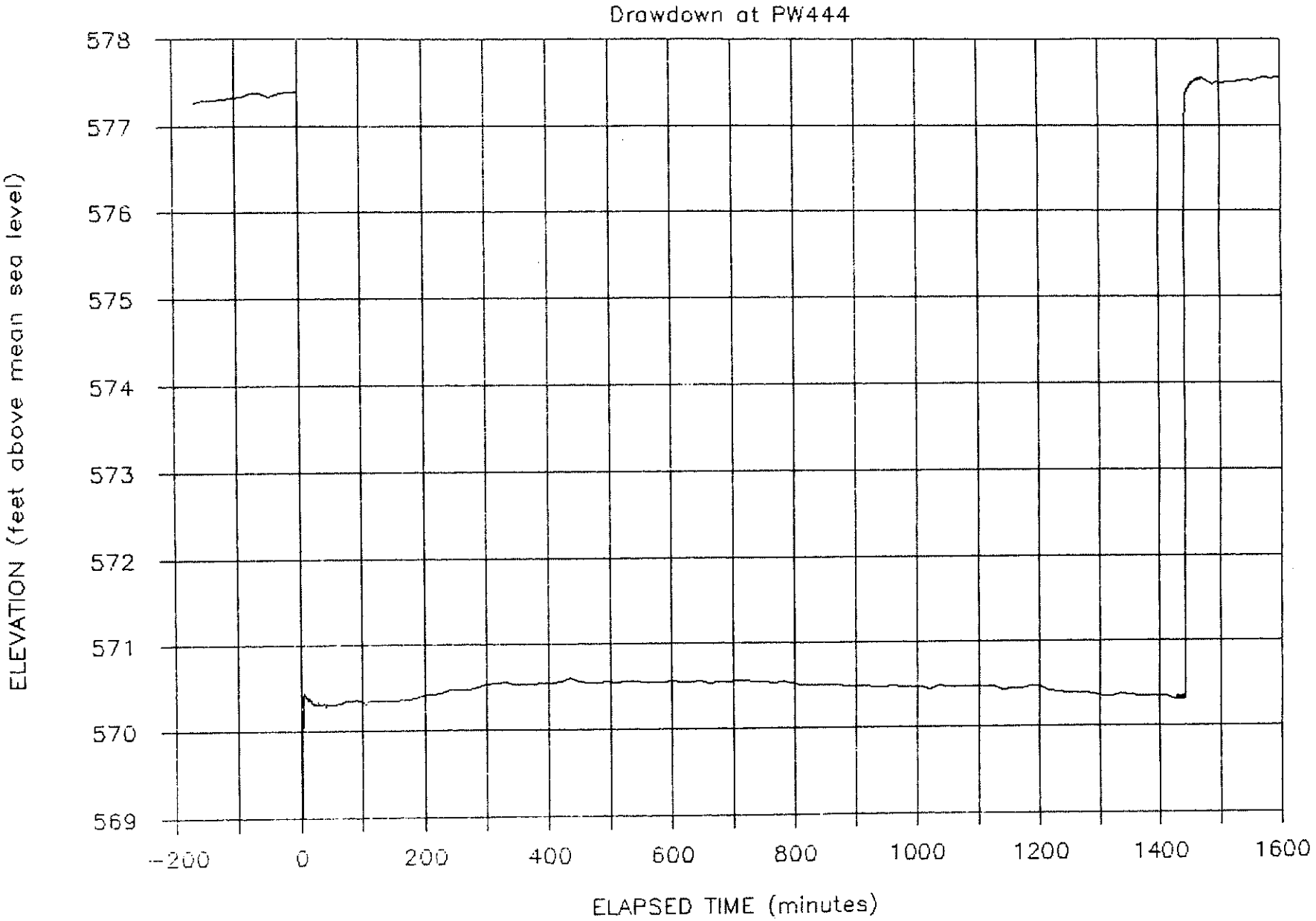
WELL NO. 444; PUMPING TEST HYDROGRAPHS AND DISTANCE - DRAWDOWN GRAPH

STEP–DRAWDOWN PW444

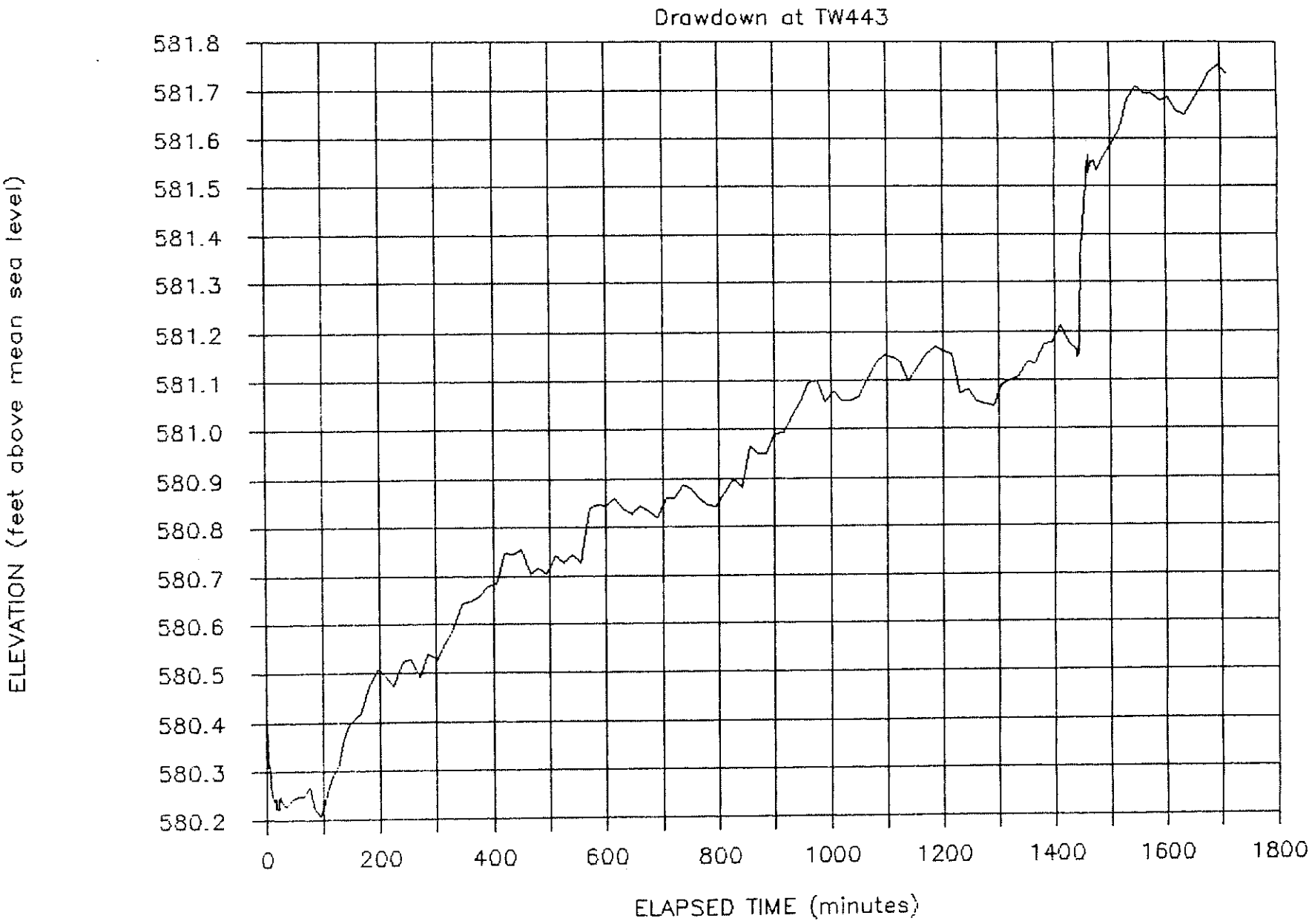


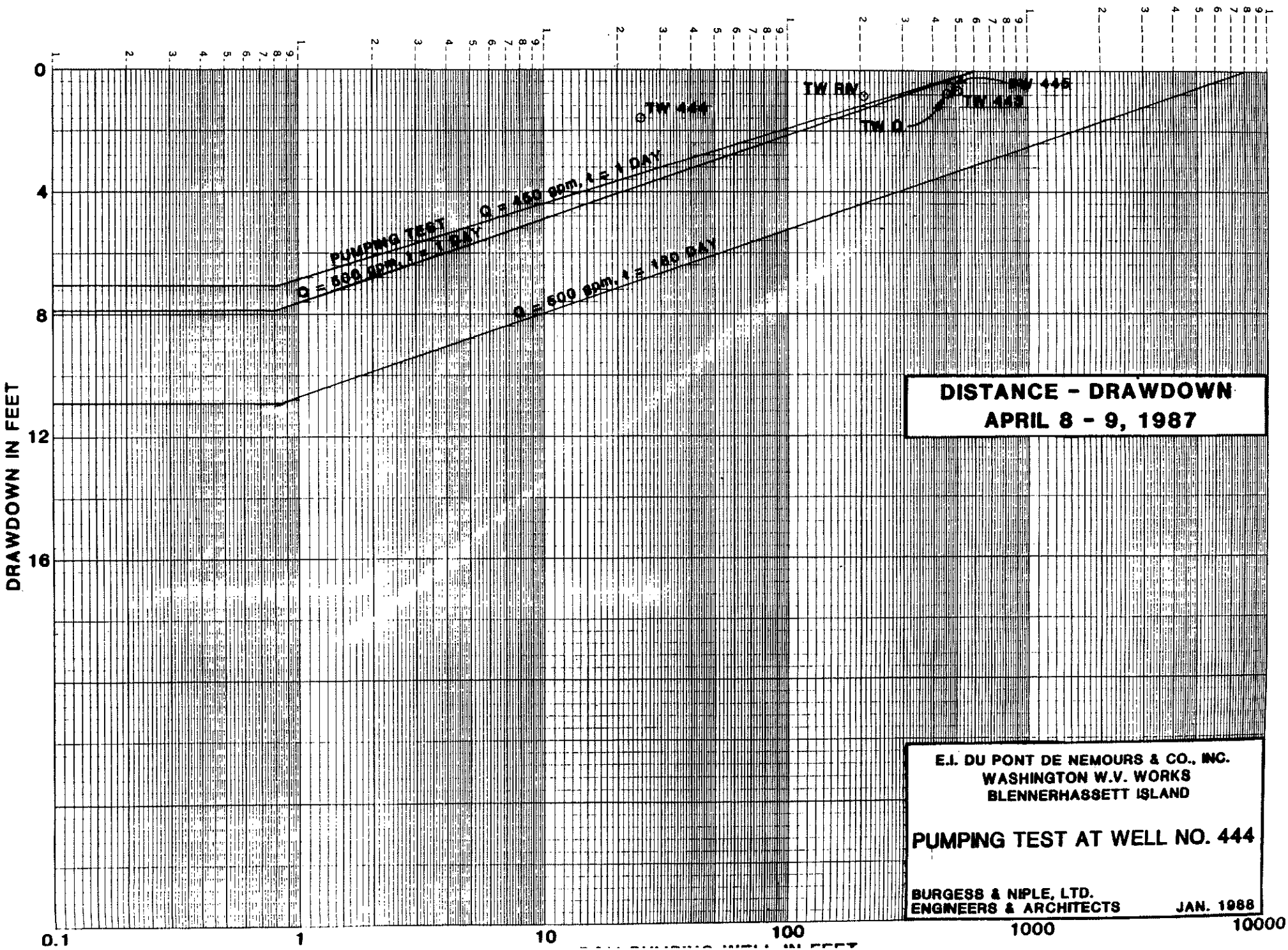

STEP–DRAWDOWN PW444
Drawdown at TW443
579.2
579.1
579.0
578.9
578.8
578.7
578.6
578.5
578.4
578.3
578.2
578.1
578.0
577.9
577.8
577.7
577.6
577.5
577.4
ELEVATION (feet above mean sea level)
-100
100
300
500
700
900
ELAPSED TIME (minutes)

CONSTANT RATE PUMPING TEST PW444



CONSTANT RATE PUMPING TEST PW444

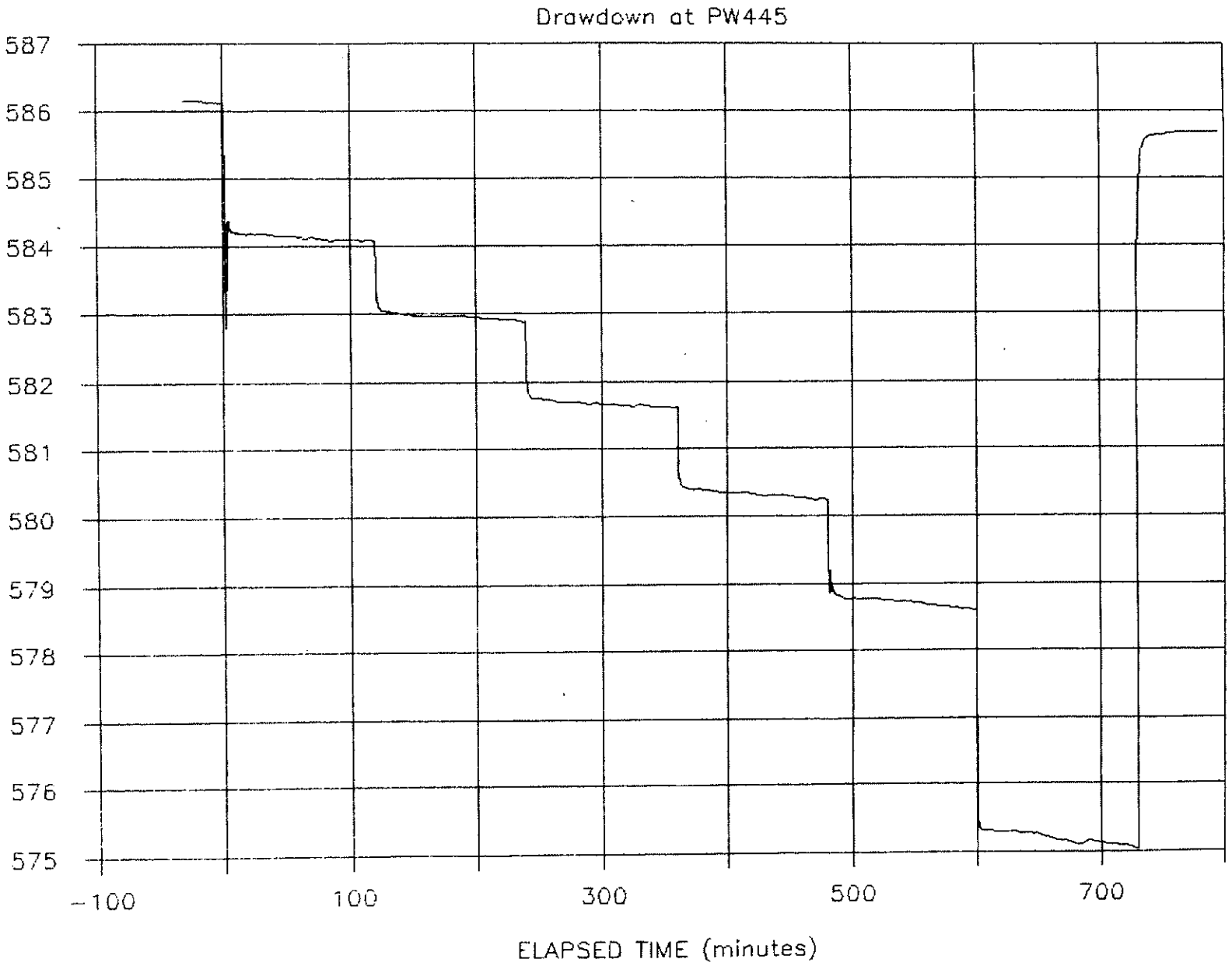



DRAWDOWN IN FEET
0
4
8
12
16
0.1
1
10
100
1000
10000
TW RW
TW 444
TW Q
TW 443
TW 445
PUMPING TEST Q = 450 gpm, t = 1 DAY
Q = 500 gpm, t = 1 DAY
Q = 500 gpm, t = 180 DAY
DISTANCE - DRAWDOWN
APRIL 8 - 9, 1987
E.I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON W.V. WORKS
BLENNERHASSETT ISLAND
PUMPING TEST AT WELL NO. 444
BURGESS & NIPLE, LTD.
ENGINEERS & ARCHITECTS
JAN. 1988

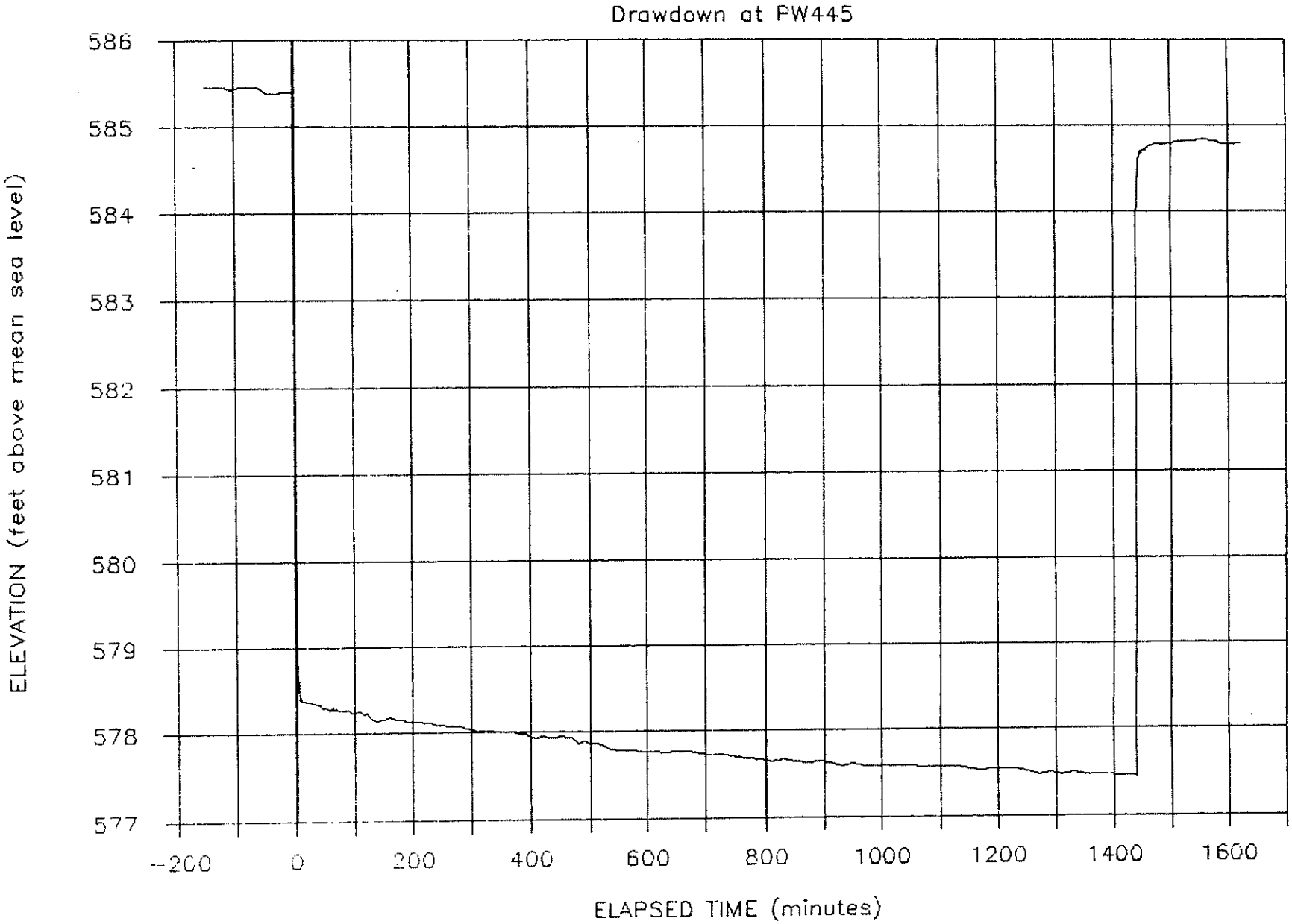
APPENDIX C

WELL NO. 445; PUMPING TEST HYDROGRAPHS AND DISTANCE - DRAWDOWN GRAPH

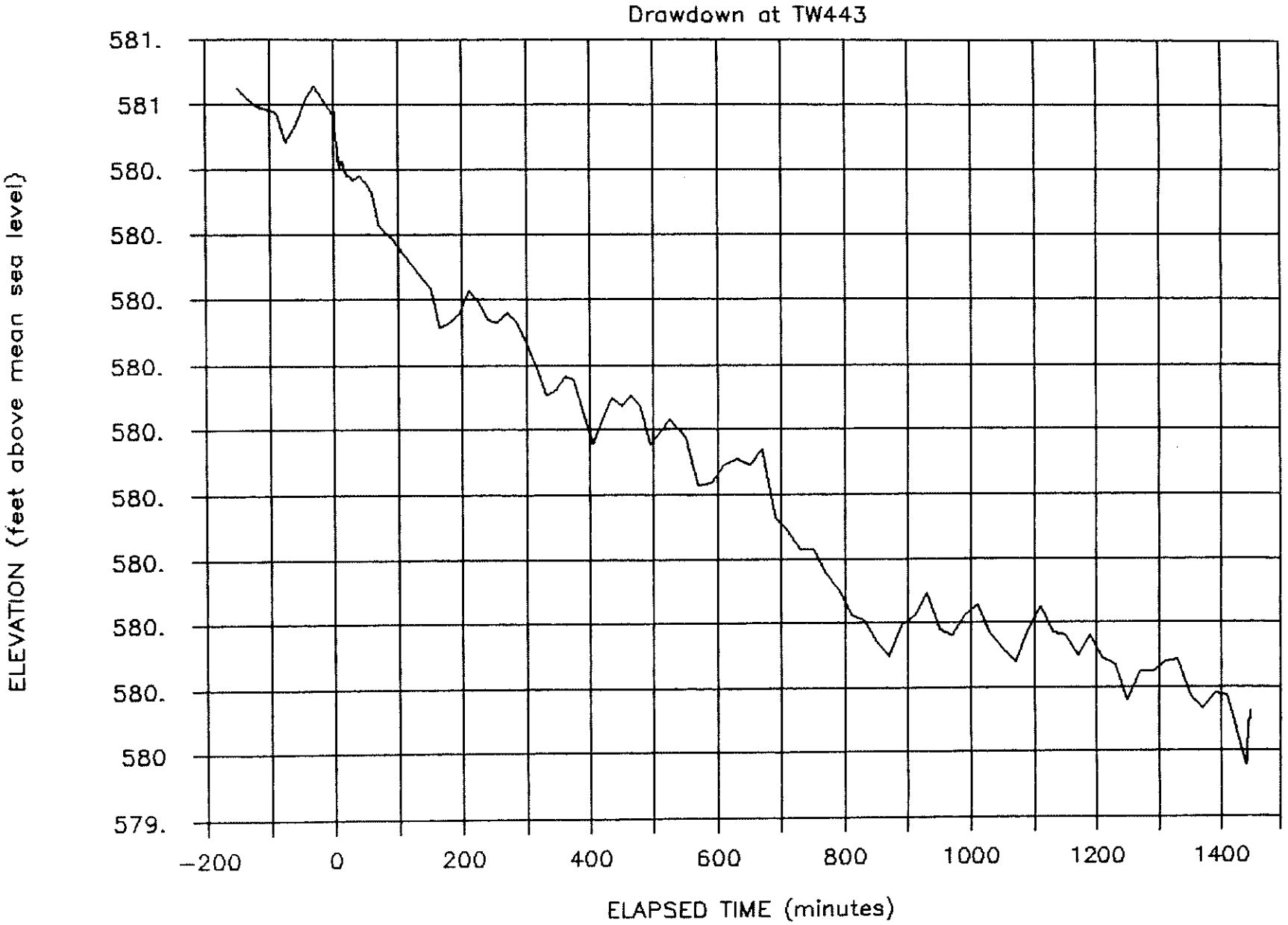
STEP–DRAWDOWN TEST PW445

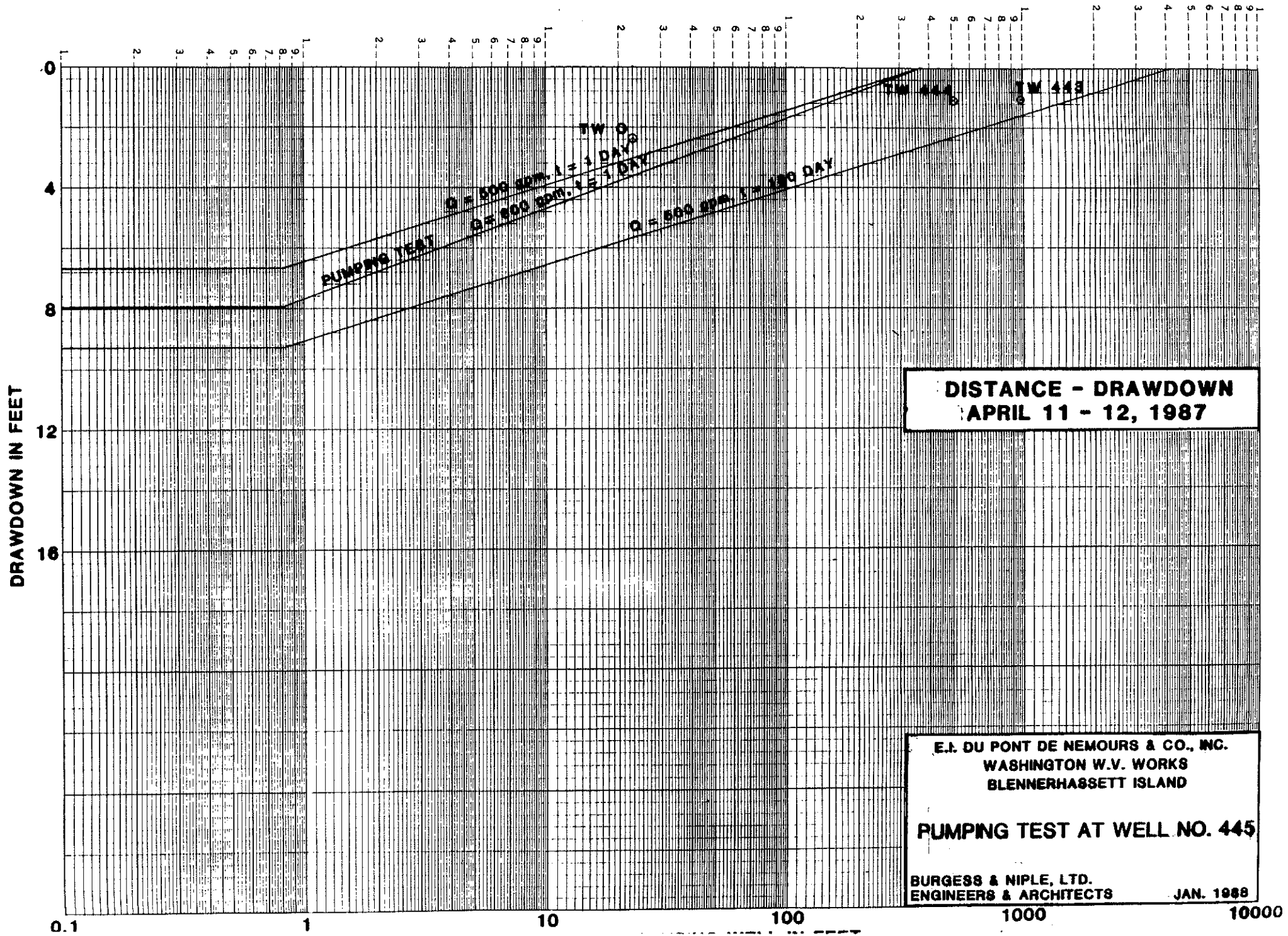


CONSTANT RATE PUMPING TEST PW445



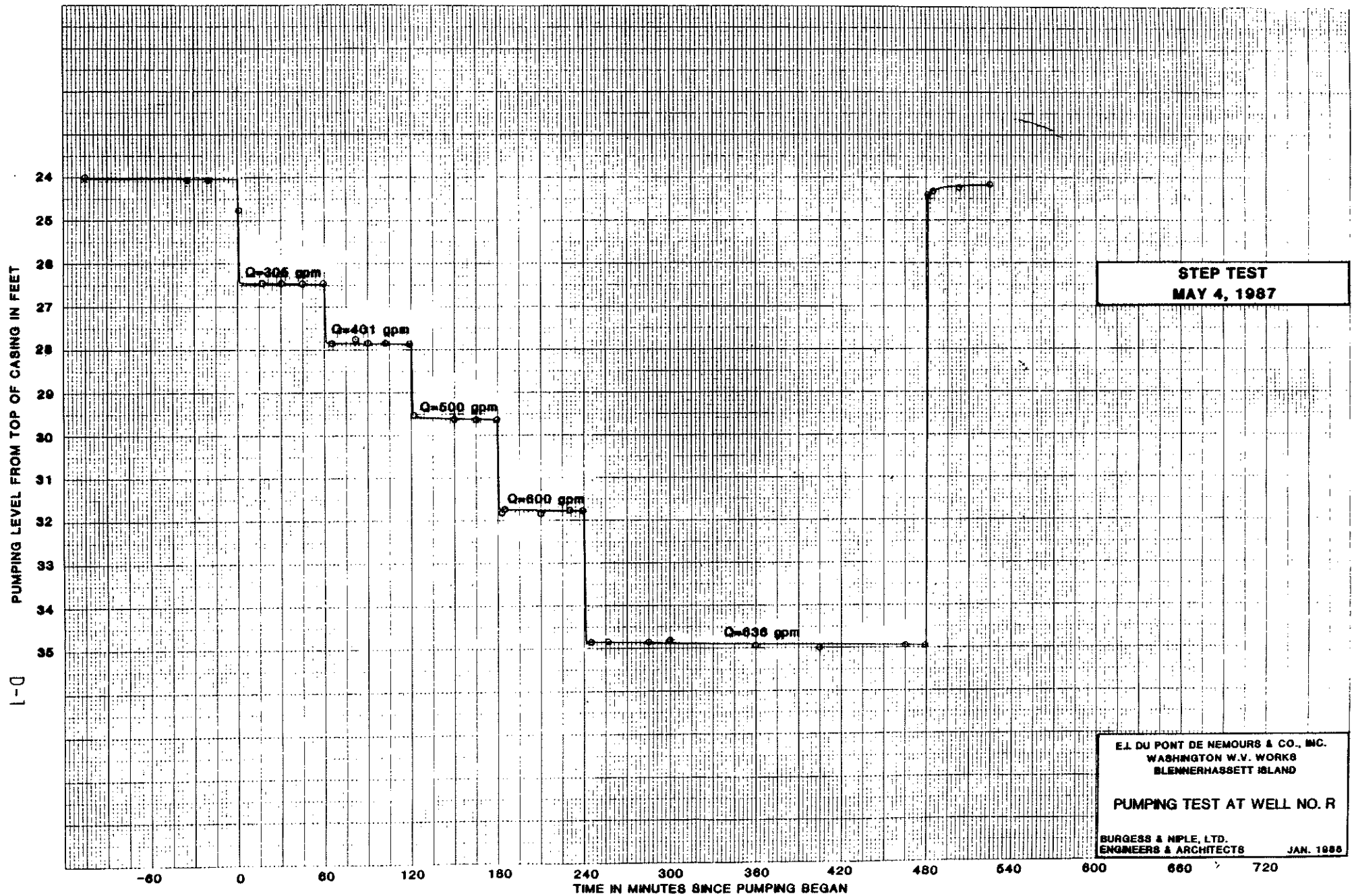
CONSTANT RATE PUMPING TEST PW445




DRAWDOWN IN FEET
0
4
8
12
16
0.1
1
10
100
1000
10000
TW 444 Q
TW 445 Q
TW Q
PUMPING TEST
Q = 500 gpm, t = 1 DAY
Q = 600 gpm, t = 1 DAY
Q = 600 gpm, t = 100 DAY
DISTANCE - DRAWDOWN
APRIL 11 - 12, 1987
E.I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON W.V. WORKS
BLENNERHASSETT ISLAND
PUMPING TEST AT WELL NO. 445
BURGESS & NIPLE, LTD.
ENGINEERS & ARCHITECTS
JAN. 1988

APPENDIX D

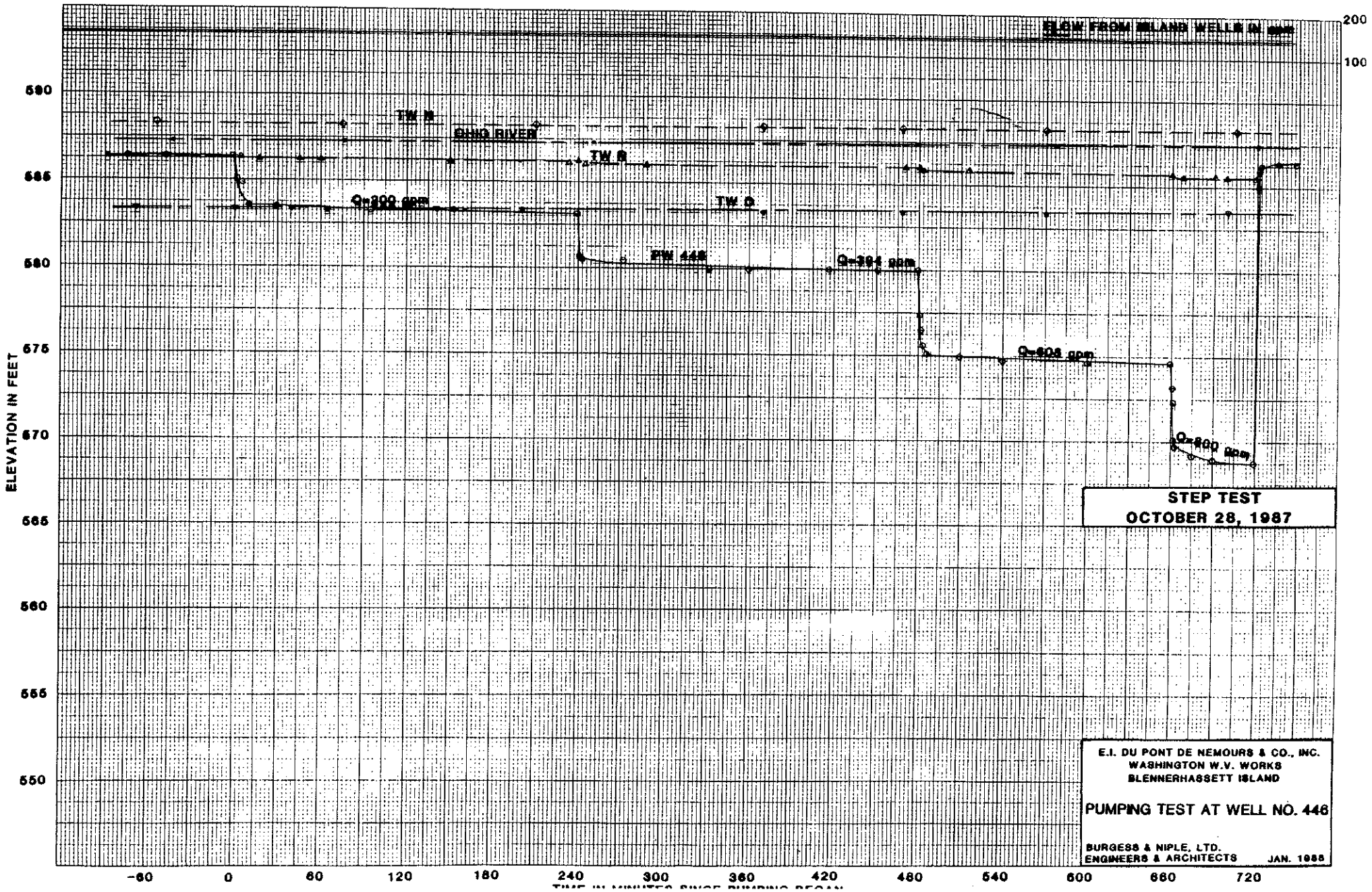
WELL NO. 'R'; PUMPING TEST HYDROGRAPH

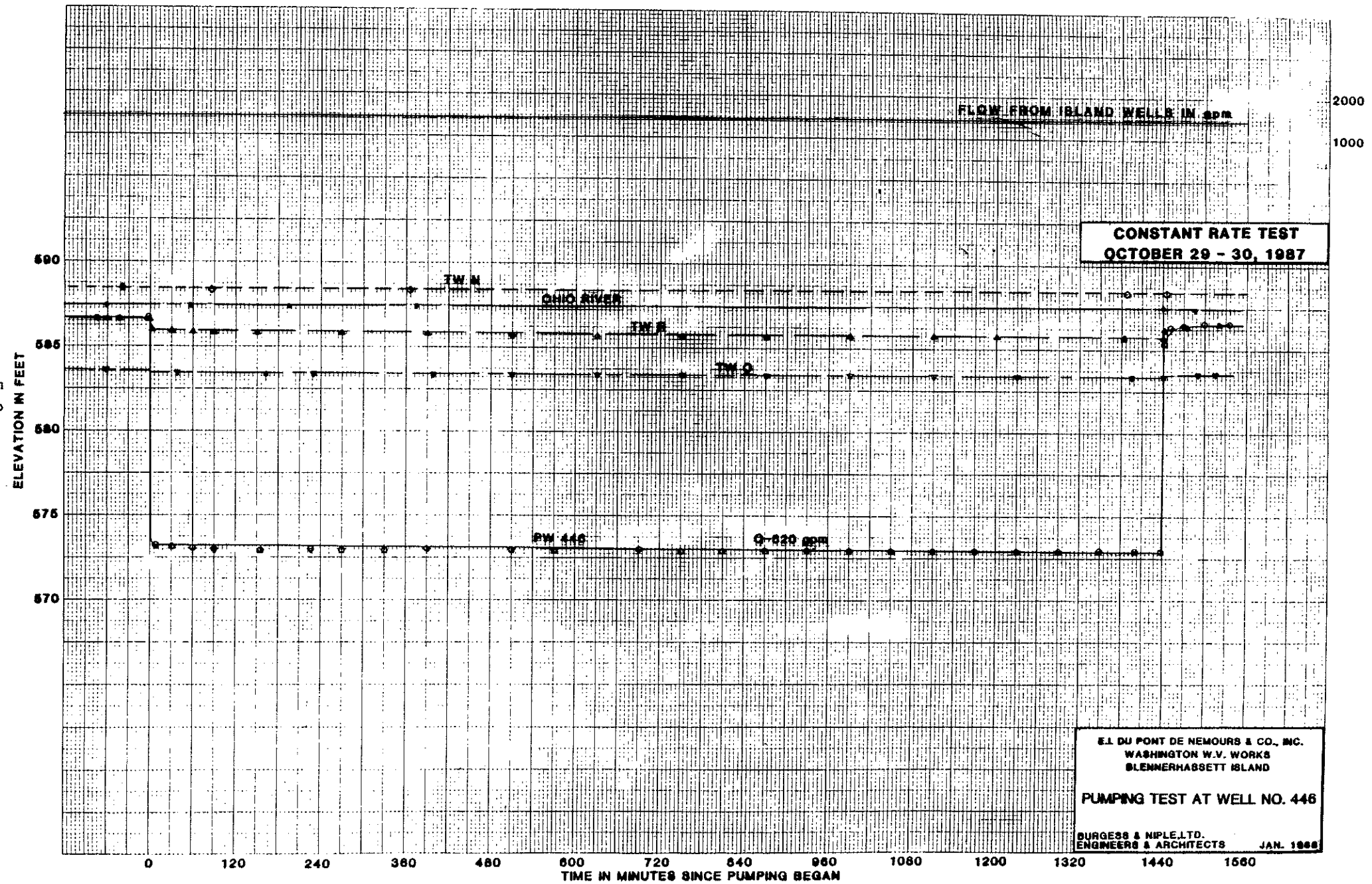

PUMPING LEVEL FROM TOP OF CASING IN FEET
24
25
26
27
28
29
30
31
32
33
34
35
Q=306 gpm
Q=401 gpm
Q=500 gpm
Q=600 gpm
Q=636 gpm
STEP TEST
MAY 4, 1987
-60
0
60
120
180
240
300
360
420
480
540
600
660
720
TIME IN MINUTES SINCE PUMPING BEGAN
E.I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON W.V. WORKS
BLENNERHASSETT ISLAND
PUMPING TEST AT WELL NO. R
BURGESS & NIPLE, LTD.
ENGINEERS & ARCHITECTS
JAN. 1988

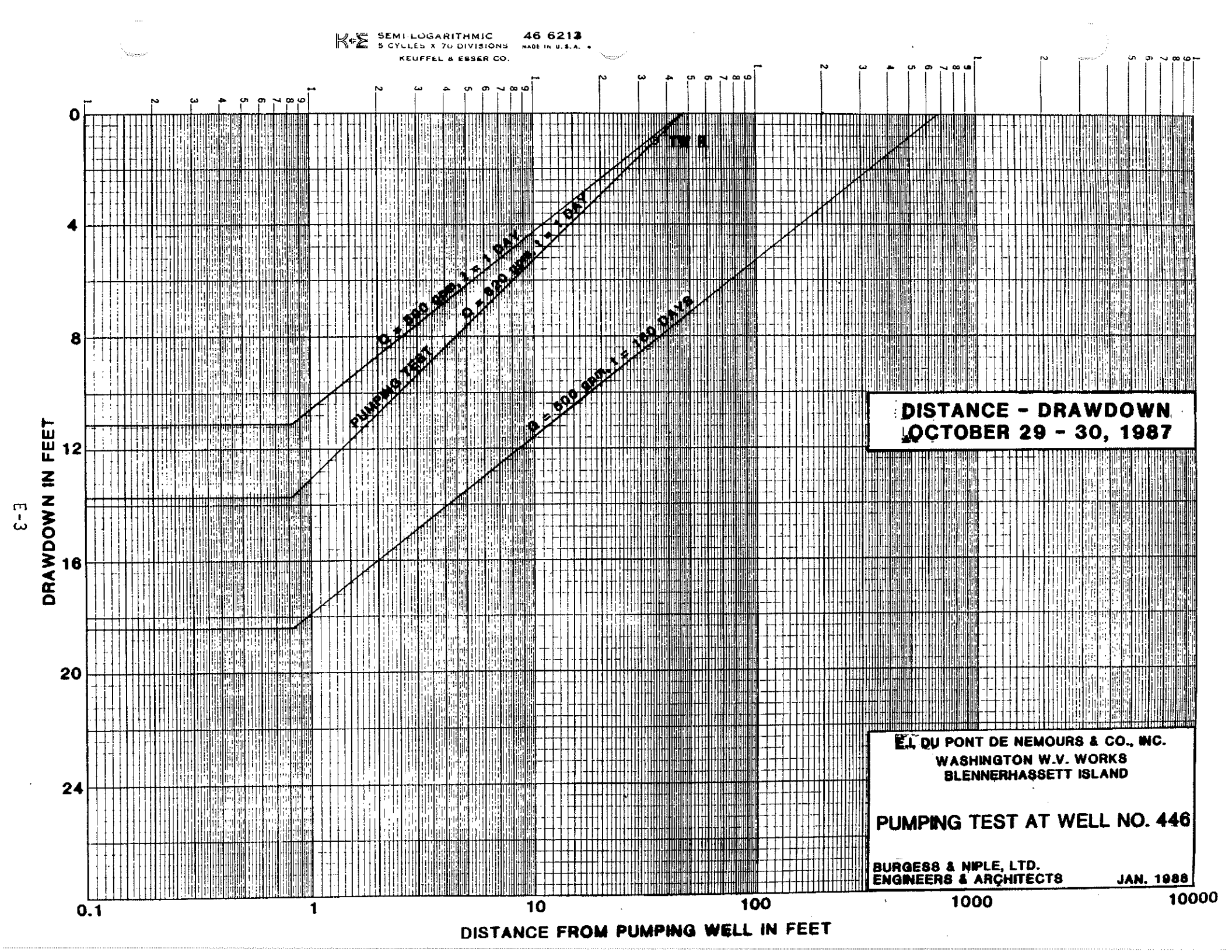
D-1

APPENDIX E

WELL 446; PUMPING TEST HYDROGRAPHS AND DISTANCE - DRAWDOWN GRAPH


FLOW FROM ISLAND WELLS IN gpm
200
100
590
585
580
575
570
565
560
555
550
ELEVATION IN FEET
TW N
OHIO RIVER
TW R
TW O
Q=200 gpm
PW 446
Q=394 gpm
Q=608 gpm
Q=800 gpm
STEP TEST
OCTOBER 28, 1987
-60
0
60
120
180
240
300
360
420
480
540
600
660
720
E.I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON W.V. WORKS
BLENNERHASSETT ISLAND
PUMPING TEST AT WELL NO. 446
BURGESS & NIPLE, LTD.
ENGINEERS & ARCHITECTS
JAN. 1988


FLOW FROM ISLAND WELLS IN gpm
2000
1000
CONSTANT RATE TEST
OCTOBER 29 - 30, 1987
TW N
OHIO RIVER
TW R
TW O
PW 446
Q=820 gpm
590
585
580
575
570
ELEVATION IN FEET
0
120
240
360
480
600
720
840
960
1080
1200
1320
1440
1560
TIME IN MINUTES SINCE PUMPING BEGAN
E.I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON W.V. WORKS
BLENNERHASSETT ISLAND
PUMPING TEST AT WELL NO. 446
BURGESS & NIPLE, LTD.
ENGINEERS & ARCHITECTS
JAN. 1988


SEMI-LOGARITHMIC 46 6213
5 CYCLES X 70 DIVISIONS MADE IN U.S.A.
KEUFFEL & ESSER CO.
PUMPING TEST
Q = 250 GPM, t = 1 DAY
Q = 320 GPM, t = 1 DAY
Q = 500 GPM, t = 100 DAYS
DISTANCE - DRAWDOWN
OCTOBER 29 - 30, 1987
E.I. DU PONT DE NEMOURS & CO., INC.
WASHINGTON W.V. WORKS
BLENNERHASSETT ISLAND
PUMPING TEST AT WELL NO. 446
BURGESS & NIPLE, LTD.
ENGINEERS & ARCHITECTS
JAN. 1988
DRAWDOWN IN FEET
0
4
8
12
16
20
24
0.1
1
10
100
1000
10000
DISTANCE FROM PUMPING WELL IN FEET

APPENDIX F

WELL LOGS

DRILLER'S LOG

1M/9/86

"It's Vault into the Earth"

PENNSYLVANIA DRILLING COMPANY

MAIN OFFICE
1201 - 1215 CHARTIERS AVENUE
PITTSBURGH, PENNA. 15220
Phone: Area Code (412) 921-5816

Job No. 86167

Record of Hole No. 436

For E. I. DuPont De Nemours & Co.
Parkersburg, WV

Location Blennerhassett Island

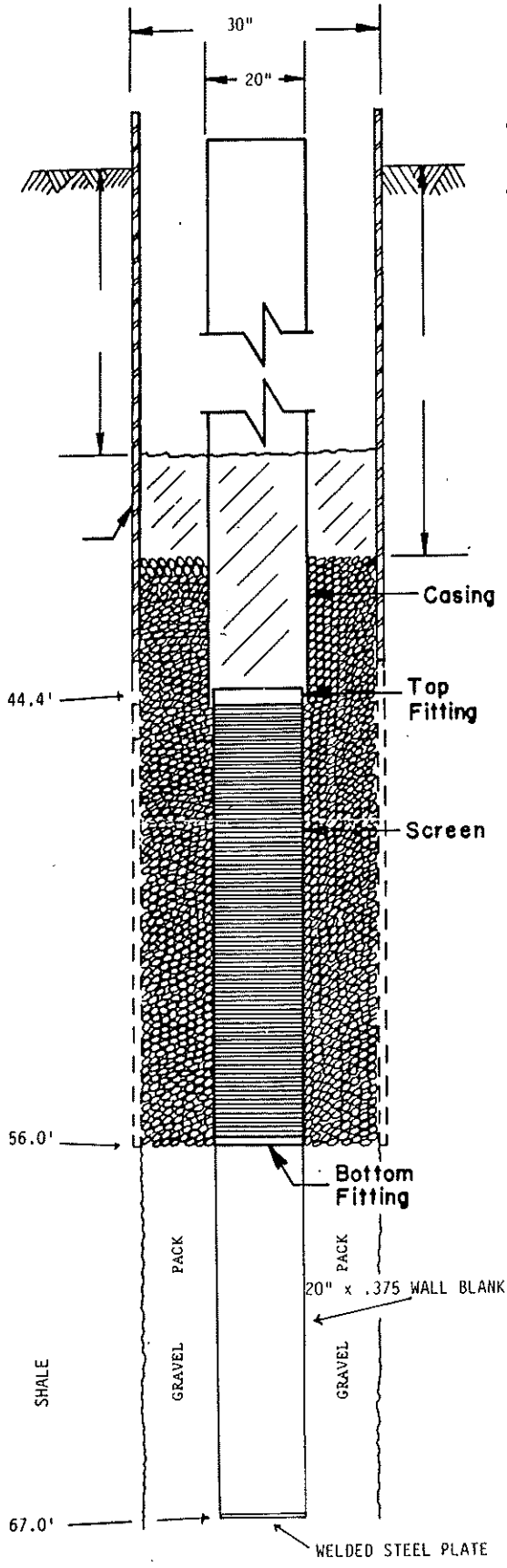
Date Started 9/29/86

Driller Dave Newman

Date Completed 10/22/86

STRATA	FROM	TO	AMOUNT DRILLED
Soil	0.0	2.0	2.0'
Silty Clay	2.0	42.0	40.0'
*Note: Sand & Gravel Lens at 30.0'			
Sand & Gravel, Fine to Coarse	42.0	58.0	16.0'
Gray Clay, Red & Gray Shale	58.0	61.0	3.0'
Medium Hard Gray Shale	61.0	67.0	6.0'
Total Depth - 67.0'			
Water Level - 24.0'			

CONSTRUCTION RECORD



WELL OWNER E. I. DUPONT DE NEMOURS & COMPANY
WASHINGTON WORKS, PARKERSBURG, WV

WELL NO. 436

Date 12/19/86

CASING DETAILS

Length 44.4'
Diameter 20" O.D.
Kind .375 WALL STEEL

SREEN DETAILS

Make LSE - COOK
Length 12'0"
Diameter 20" O.D.
Slot size .090
Metal 304 STAINLESS STEEL

SCREEN FITTINGS

Top WELD RING
Bottom WELD RING

PUMP TEST

Static level
Rate
Draw down
Hours pumped

ARTIFICIALLY GRAVEL TREATED

Yes X **No**
Thickness 5"
Size of gravel BEST SILICA #430

DEPTH OF WELL 67.0'

VERTICAL CROSS-SECTION VIEW of WELL CONSTRUCTION

DATE: 12/19/86	PENNSYLVANIA DRILLING COMPANY PITTSBURGH, PA.	SCALE:
DRWG. NO. 446-A KLC	WATER WELL DIV.	

DRILLER'S LOG

1M/9/86

"We Look into the Earth"

PENNSYLVANIA DRILLING COMPANY

MAIN OFFICE
1201 - 1215 CHARTIERS AVENUE
PITTSBURGH, PENNA. 15220
Phone: Area Code (412) 921-5816

Job No. 86167

Record of Hole No. 444

For E. I. DuPont De Nemours & Co.
Parkersburg, WV

Location Blennerhassett Island

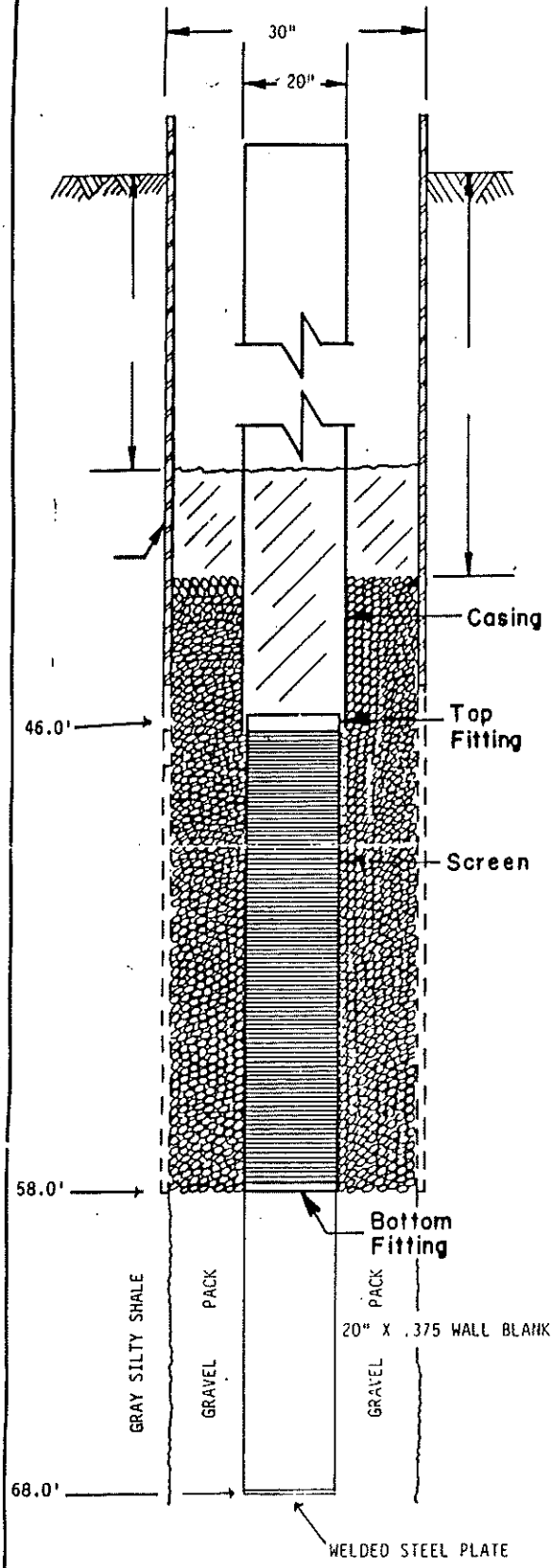
Date Started 12/21/86

Driller Ron Irwin

Date Completed 1/11/87

STRATA	FROM	TO	AMOUNT DRILLED
Clay	0.0	26.0	26.0'
Clay & Gravel	26.0	38.0	12.0'
Clay & Gravel, Sandy Towards Bottom	38.0	42.0	4.0'
Sand & Gravel	42.0	58.5	16.5'
Gray Silty Shale	58.5	68.5	10.0'
Total Depth - 68.5'			
Static Water Level 21.15'			

CONSTRUCTION RECORD



WELL OWNER E. I. DUPONT DE NEMOURS & COMPANY
BLENNERHASSETT ISLAND

WELL NO. 444

Date 1/21/88

CASING DETAILS

Length 46.0'
Diameter 20" O.D.
Kind .375 WALL STEEL PIPE

SREEN DETAILS

Make COOK WELL SCREEN
Length 12.0'
Diameter 20" O.D.
Slot size .075"
Metal 304 STAINLESS STEEL 158 WIRE SIZE

SCREEN FITTINGS

Top WELD RING
Bottom WELD RING

PUMP TEST

Static level
Rate
Draw down
Hours pumped

ARTIFICIALLY GRAVEL TREATED

Yes Y No
Thickness 5"
Size of gravel PARRY #4 QUARTZ

DEPTH OF WELL 63.5'

VERTICAL CROSS-SECTION VIEW of

WELL CONSTRUCTION

DATE: 1/21/88	PENNSYLVANIA DRILLING COMPANY PITTSBURGH, PA.	SCALE:
DRWG. NO. RK	WATER WELL DIV.	

"We Went into the Earth"

PENNSYLVANIA DRILLING COMPANY

MAIN OFFICE
1201 - 1215 CHARTIERS AVENUE
PITTSBURGH, PENNA. 15220
Phone: Area Code (412) 921-5816

Job No. 86167 Record of Hole No. 445

For E. I. DuPont De Nemours & Co. Location Blennerhassett Island

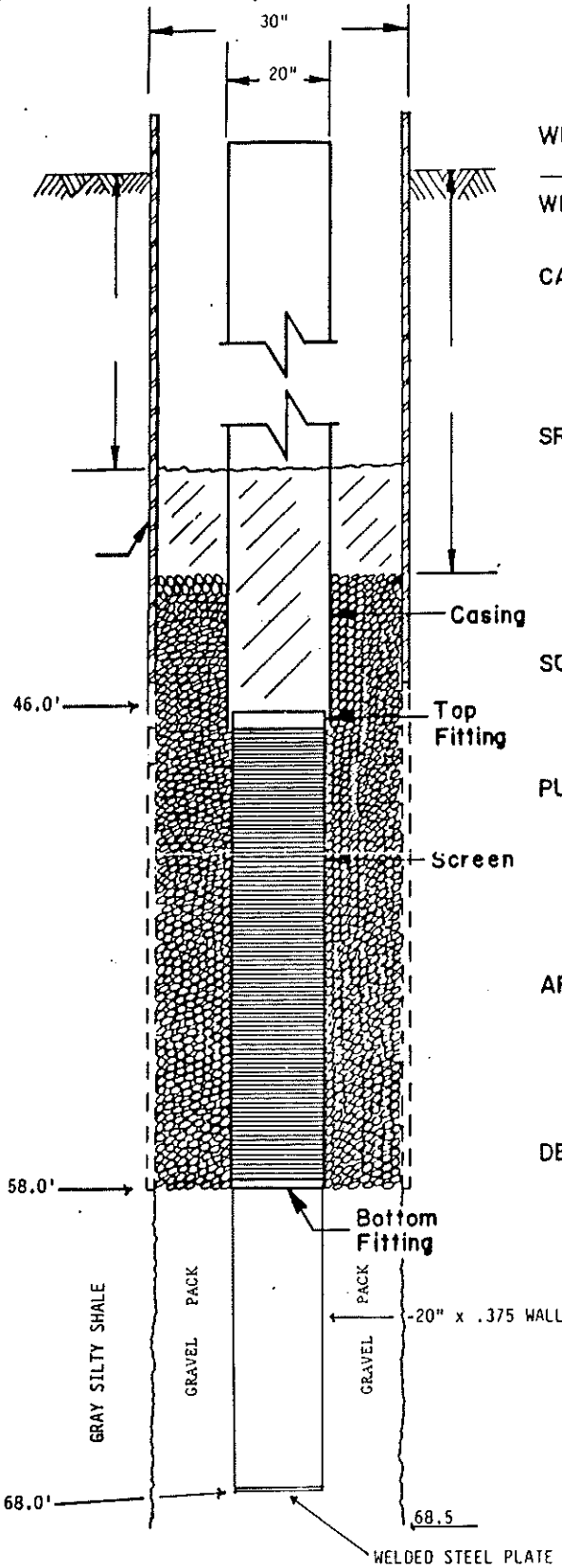
Parkersburg, WV

Date Started 2/9/87

Driller Ron Irwin Date Completed 2/25/87

STRATA	FROM	TO	AMOUNT DRILLED
Moist Brown Silty Clay	0.0	4.0	4.0'
Moist Brown Silty Clay with Sand & Gravel Near Bottom	4.0	16.0	12.0'
Clay, Trace of Sand & Gravel	16.0	25.3	9.3'
Sand & Gravel, Trace of Silty Brown Clay	25.3	34.0	8.7'
Sand & Gravel	34.0	58.0	24.0'
Gray Shale	58.0	64.0	6.0'
Gray Silty Shale	64.0	68.0	4.0'
Total Depth - 68.0'			
Static Water Level 19.42'			

CONSTRUCTION RECORD



WELL OWNER E. I. DUPONT DE NEMOURS & COMPANY
BIENNERHASSETT ISLAND

WELL NO. 445

Date 1/21/88

CASING DETAILS

Length 46.0'

Diameter 20" O.D.

Kind .375 WALL STEEL PIPE

SREEN DETAILS

Make COOK WELL SCREEN

Length 12.0'

Diameter 20"

Slot size .075

Metal 304 STAINLESS STEEL 158 WIRE SIZE

SCREEN FITTINGS

Top WELD RING

Bottom WELD RING

PUMP TEST

Static level

Rate

Draw down

Hours pumped

ARTIFICIALLY GRAVEL TREATED

Yes X No

Thickness 5"

Size of gravel PARRY NO. 4 QUARTZ

DEPTH OF WELL 68.0'

VERTICAL CROSS-SECTION VIEW of

WELL CONSTRUCTION

DATE: 1/21/88	PENNSYLVANIA DRILLING COMPANY PITTSBURGH, PA.	SCALE:
DRWG. NO. RK	WATER WELL DIV.	

"We Went into the Earth"

PENNSYLVANIA DRILLING COMPANY

MAIN OFFICE
1201 - 1215 CHARTIERS AVENUE
PITTSBURGH, PENNA. 15220
Phone: Area Code (412) 921-5816

Job No. 8738 Record of Hole No. Test Well R

For E. I. DuPont De Nemours & Co Location Blennerhassett Island

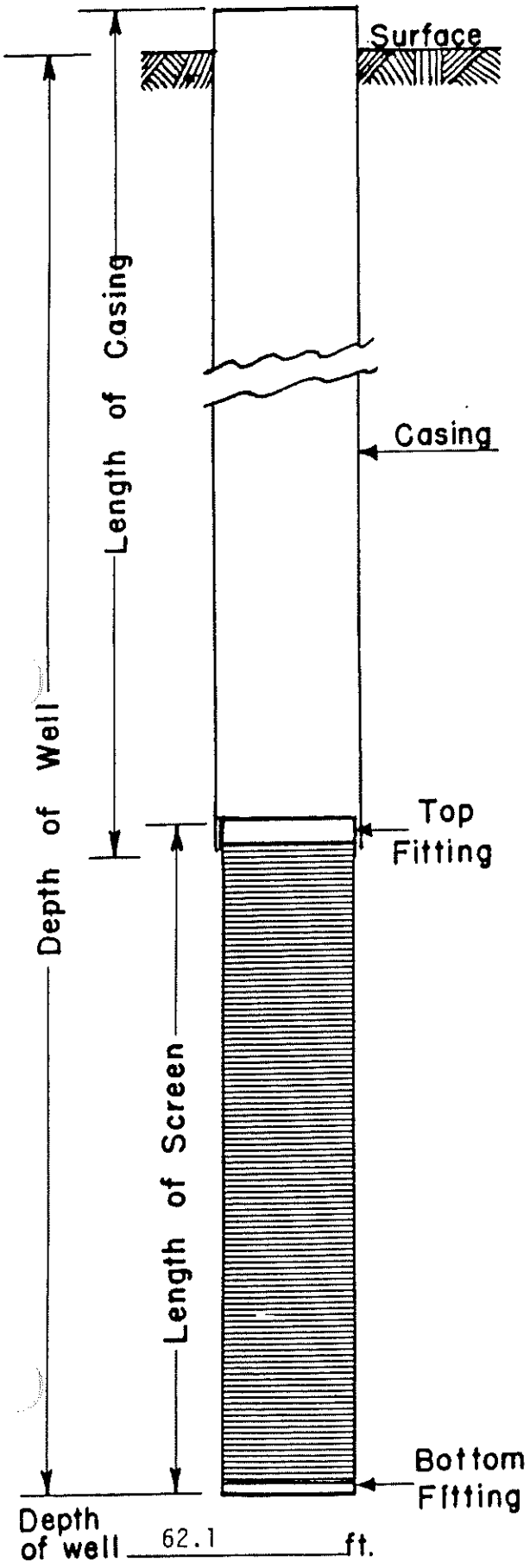
Parkersburg, WV

Date Started 3/13/87

Driller Ron Irwin Date Completed 3/18/87

STRATA	FROM	TO	AMOUNT DRILLED
Moist Brown Silty Clay	0.0	20.0	20.0'
Sand & Gravel, Trace of Silty Brown Clay	20.0	35.0	15.0'
Sand & Gravel, Fine to Coarse	35.0	62.1	27.1'

CONSTRUCTION RECORD



WELL OWNER E. I. DuPont De Nemours & Company

Blennerhassett Island

WELL NO. Test Well R

Date 11/6/87

CASING DETAILS

Length 48.0 ft.

Diameter 8 in.

Kind Black Steel

SCREEN DETAILS

Make Cook Telescopic Screen

Length 15.0 ft.

Diameter 7-1/2 OD 6-7/8 ID in.

Slot size Upper 12.0' - .100 Slot
Lower 3.0' - .020 Slot

Metal #90 304 Stainless Steel Wire

SCREEN FITTINGS

Top Lead Packer

Bottom Welded Plate

PUMP TEST

Static level _____ ft.

Rate _____ g.p.m.

Draw down _____ ft.

Hours pumped _____ hrs.

ARTIFICIALLY GRAVEL TREATED

Yes _____ No X

Thickness _____ in.

Size of gravel _____

DRILLER Ron Irwin
Pennsylvania Drilling Company
1205 Chartiers Avenue
Pittsburgh, PA 15220

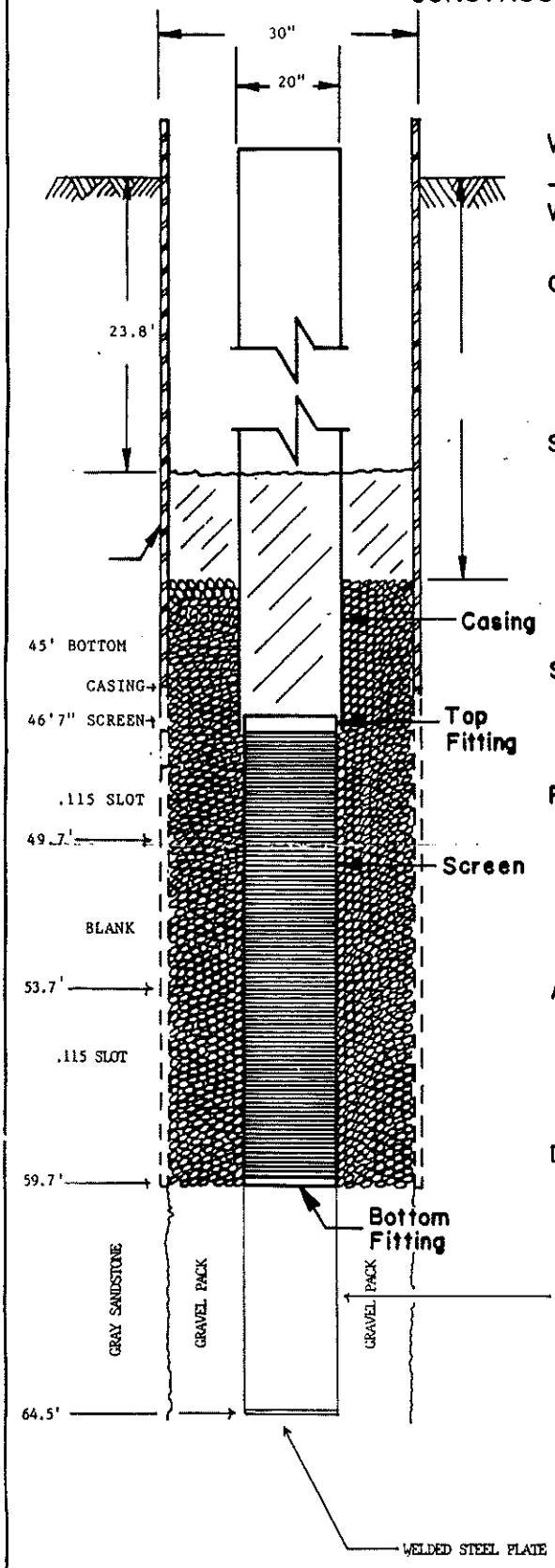
DuPONT BLANNERHASSETT ISLAND

SWL - 24' WELL #446

0 - 10'	Brown silty clay
10 - 15'	Brown silty clay & little gravel
15 - 25'	Brown clay & gravel
25 - 30'	Brown gravel, little clay
30 - 40'	Brown sand & gravel
40 - 50'	Brown sand & gravel
50 - 52'	Sand & red water
52 - 54'	Sand & gravel, heaving
54 - 58'	Sand & gravel
58 - 59'4"	Sand & gravel, chunks of sandstone
59'4" - 62'6"	Cemented sand & gravel, very little water
62'6" - 64½'	Gray sandstone

CONSTRUCTION RECORD

STARTED: 8/20/87
FINISHED: 10/8/87



WELL OWNER E. I. DUPONT DE NEMOURS CO.
BLENNER HASSETT ISLAND

WELL NO. 446

Date 1/29/88

CASING DETAILS

Length 46'7"
Diameter 20" O.D.
Kind .375 WALL STEEL PIPE

SREEN DETAILS

Make COOK WELL SCREEN
Length 13'
Diameter 20" O.D.
Slot size 3'-115 SLOT 4'-BLANK 6'-115 SLOT
Metal 304 STAINLESS .130 WIRE SIZE

SCREEN FITTINGS

Top WELD RING
Bottom WELD RING

PUMP TEST

Static level 23.8'
Rate 600 G.P.M.
Draw down 13.5'
Hours pumped 24 HR. TEST

ARTIFICIALLY GRAVEL TREATED

Yes X **No** _____
Thickness 5"
Size of gravel #10 PARRY GRAVEL

DEPTH OF WELL 64.5'

VERTICAL CROSS-SECTION
VIEW of

WELL CONSTRUCTION

DATE: 1/29/88	PENNSYLVANIA DRILLING COMPANY PITTSBURGH, PA.	SCALE:
DRWG. NO.	WATER WELL DIV.	

APPENDIX G

GRAIN SIZE ANALYSIS

WELL STRAINER CORP.

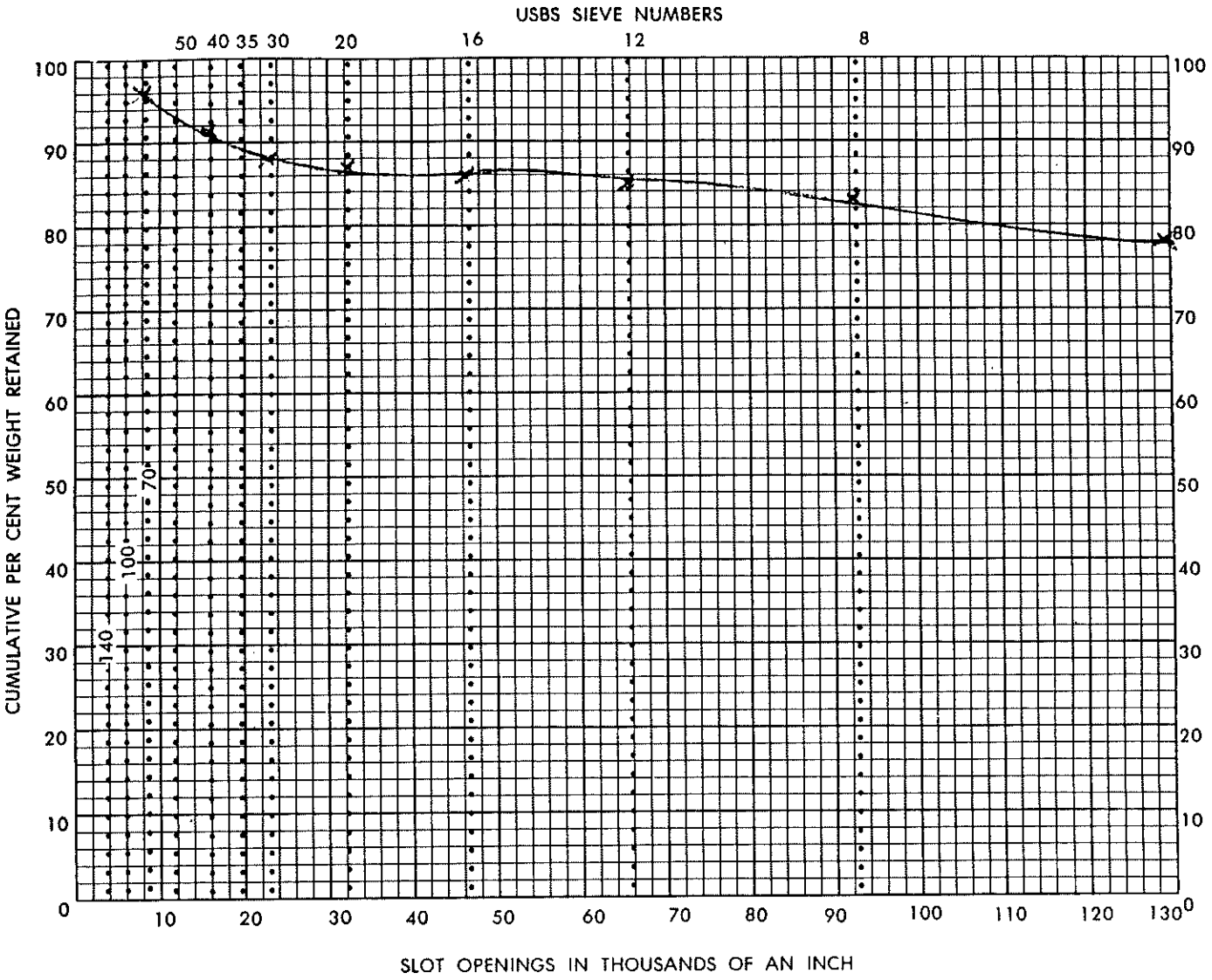
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 39' to _____

Well Designation: Dupont well # 436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	483	78
8	.0937	2.36	513	83
12	.0661	1.70	526	85
16	.0469	1.18	533	86
20	.0331	0.85	538	87
30	.0234	0.60	545	88
35	.0197	0.50	549	89
40	.0165	.425	554	91
50	.0117	.300	565	93
70	.0083	.212	577	95
100	.0059	.150	589	97
140	.0041	.106	599	
	PAN		620	

WELL STRAINER CORP.

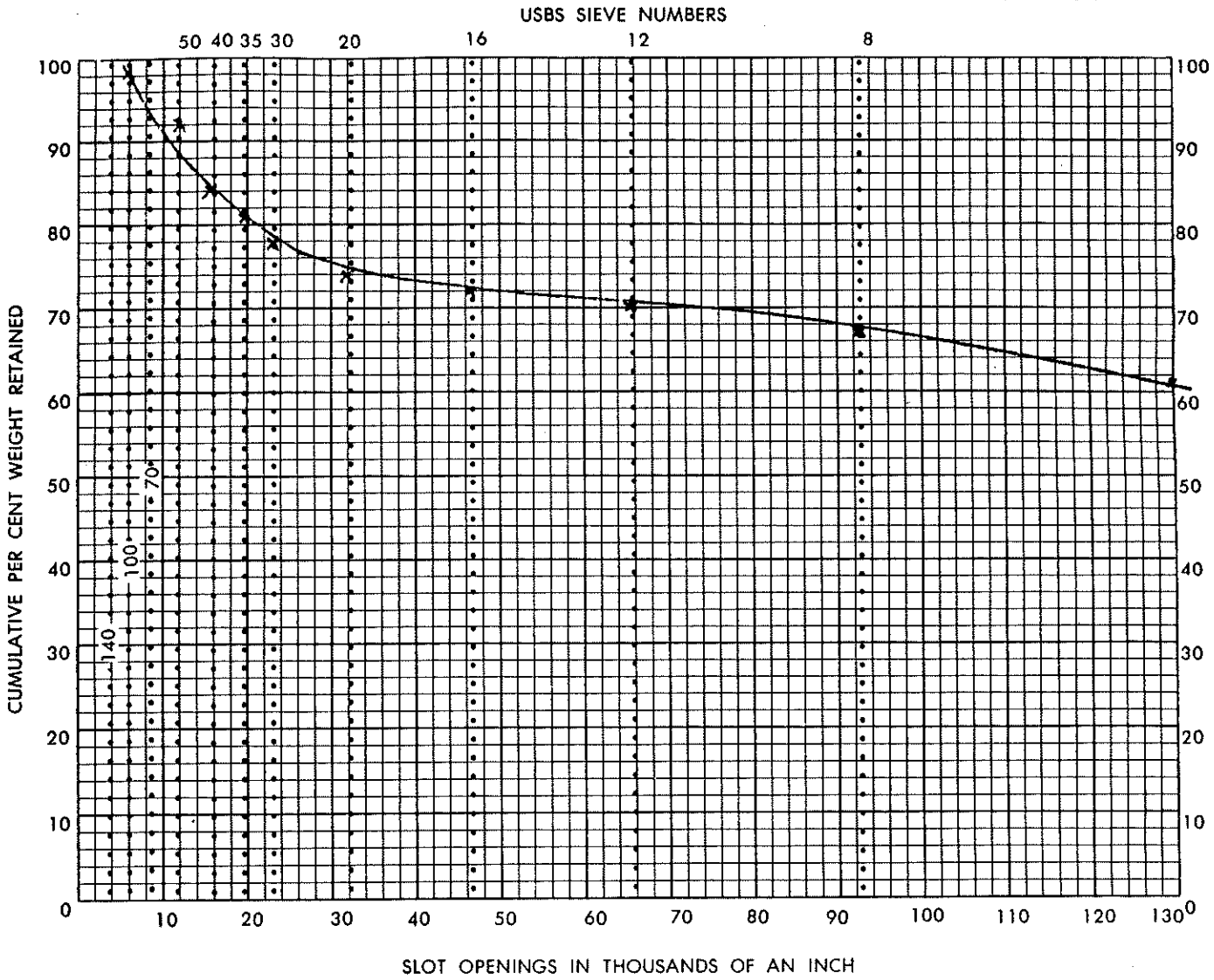
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 40 to _____

Well Designation: DuPont # 436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	235	61
8	.0937	2.36	259	67
12	.0661	1.70	270	70
16	.0469	1.18	277	72
20	.0331	0.85	283	74
30	.0234	0.60	300	78
35	.0197	0.50	312	81
40	.0165	.425	324	84
50	.0117	.300	354	92
70	.0083	.212	370	96
100	.0059	.150	377	98
140	.0041	.106	380	99
	PAN		385	100

FORM 800

WELL STRAINER CORP.

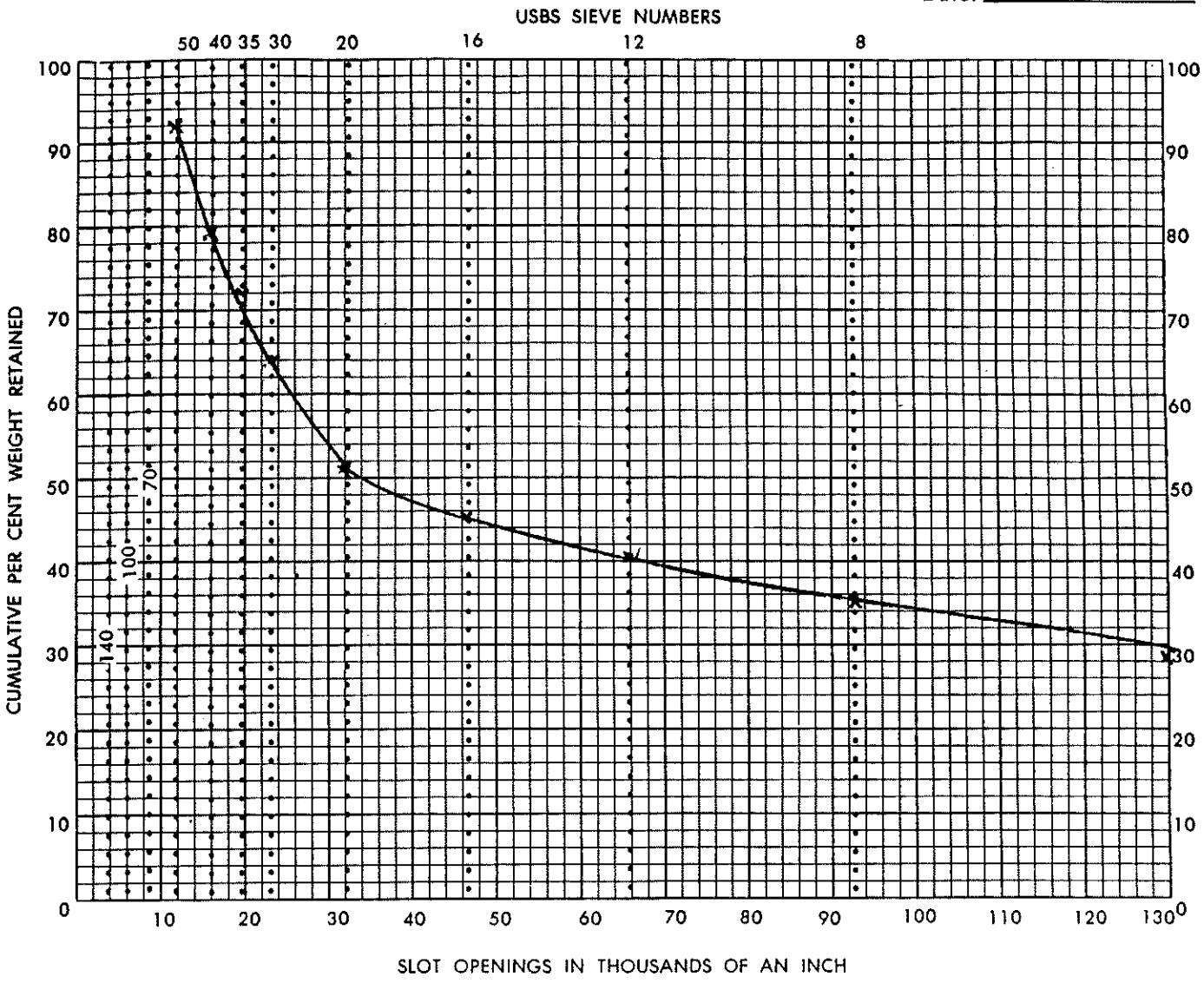
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 42' to _____

Well Designation: DuPont # 436

Sample received from: _____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. Static Level _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	151	29
8	.0937	2.36	185	35
12	.0661	1.70	212	40
16	.0469	1.18	239	45
20	.0331	0.85	271	51
30	.0234	0.60	336	64
35	.0197	0.50	380	72
40	.0165	.425	420	79
50	.0117	.300	487	92
70	.0083	.212	514	97
100	.0059	.150	521	
140	.0041	.106	524	
	PAN		528	

FORM 800

WELL STRAINER CORP.

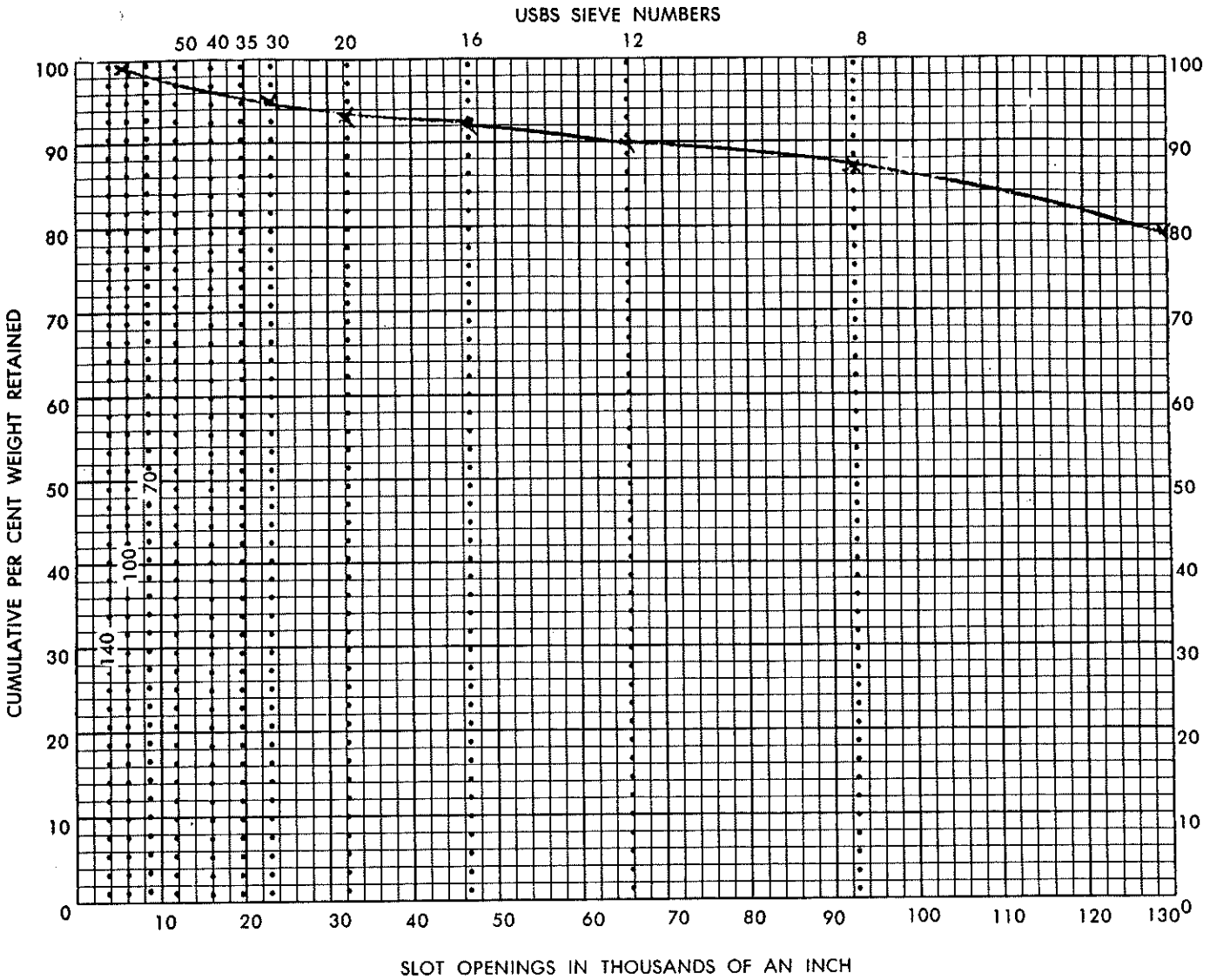
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 45' to _____

Well Designation: Du Pont #436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	393	79
8	.0937	2.36	427	87
12	.0661	1.70	445	90
16	.0469	1.18	456	92
20	.0331	0.85	460	93
30	.0234	0.60	468	95
35	.0197	0.50	472	
40	.0165	.425	477	
50	.0117	.300	482	
70	.0083	.212	485	
100	.0059	.150	489	
140	.0041	.106	490	
	PAN		493	

WELL STRAINER CORP.

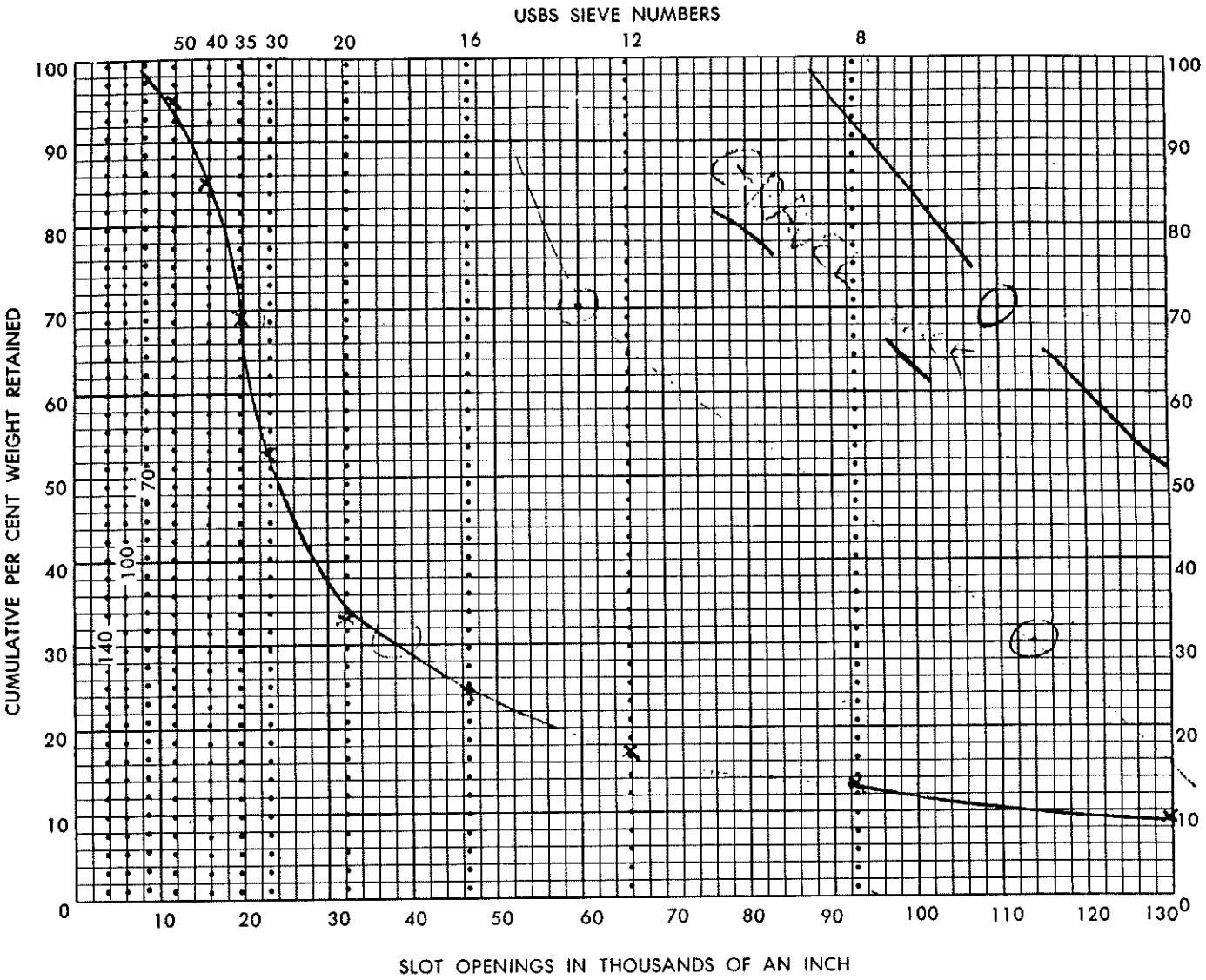
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 46.5' to _____

Well Designation: DuPont #436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	57	9
8	.0937	2.36	79	13
12	.0661	1.70	108	17
16	.0469	1.18	146	24
20	.0331	0.85	202	33
30	.0234	0.60	326	53
35	.0197	0.50	428	69
40	.0165	.425	523	85
50	.0117	.300	587	95
70	.0083	.212	600	
100	.0059	.150	609	98
140	.0041	.106	611	
	PAN		618	100

WELL STRAINER CORP.

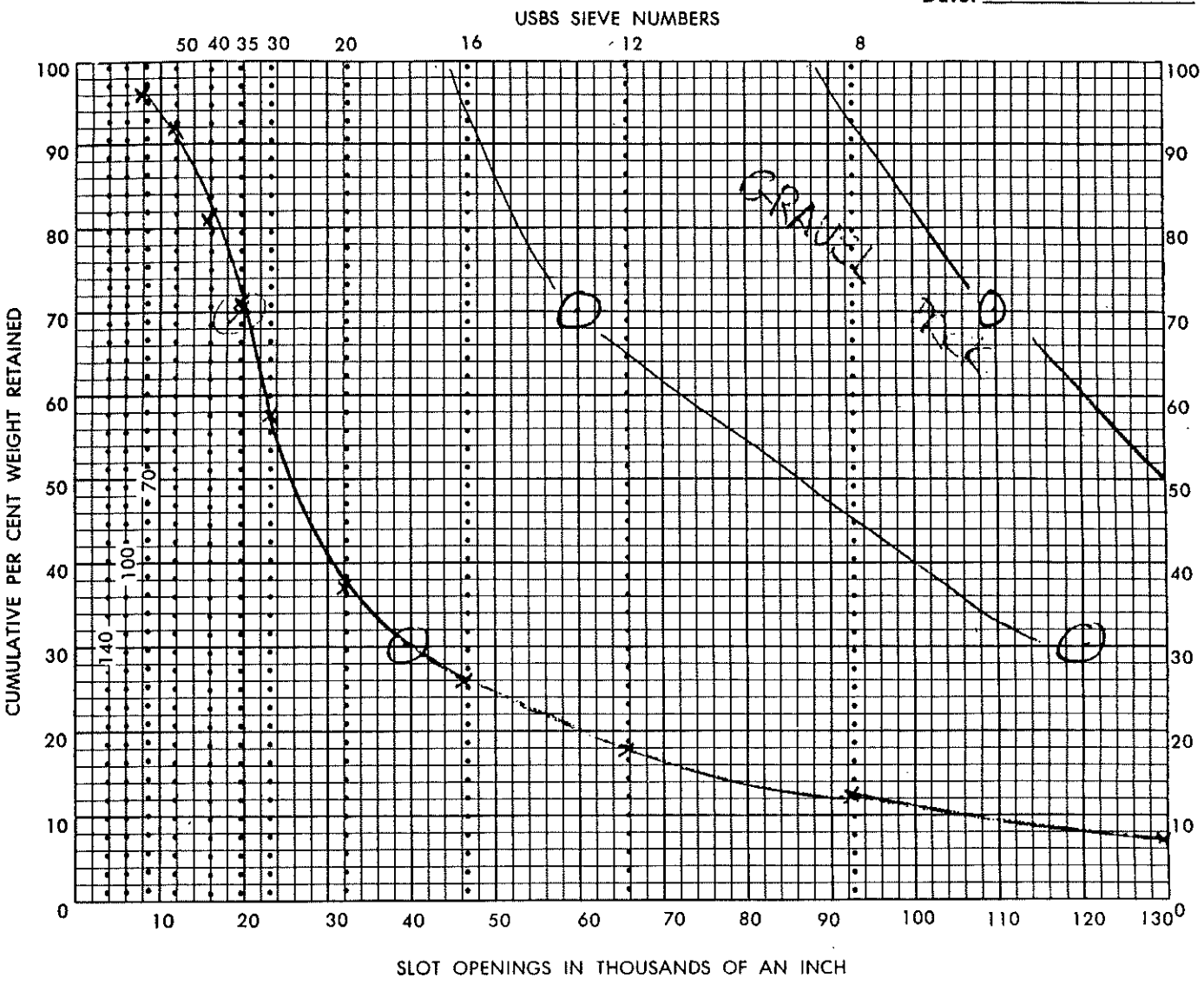
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 48' to _____

Well Designation: DuPont # 436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	49	7
8	.0937	2.36	82	12
12	.0661	1.70	126	18
16	.0469	1.18	181	26
20	.0331	0.85	259	37
30	.0234	0.60	410	58
35	.0197	0.50	498	71
40	.0165	.425	572	81
50	.0117	.300	643	92
70	.0083	.212	676	96
100	.0059	.150	697	99
140	.0041	.106	700	
	PAN		702	100

WELL STRAINER CORP.

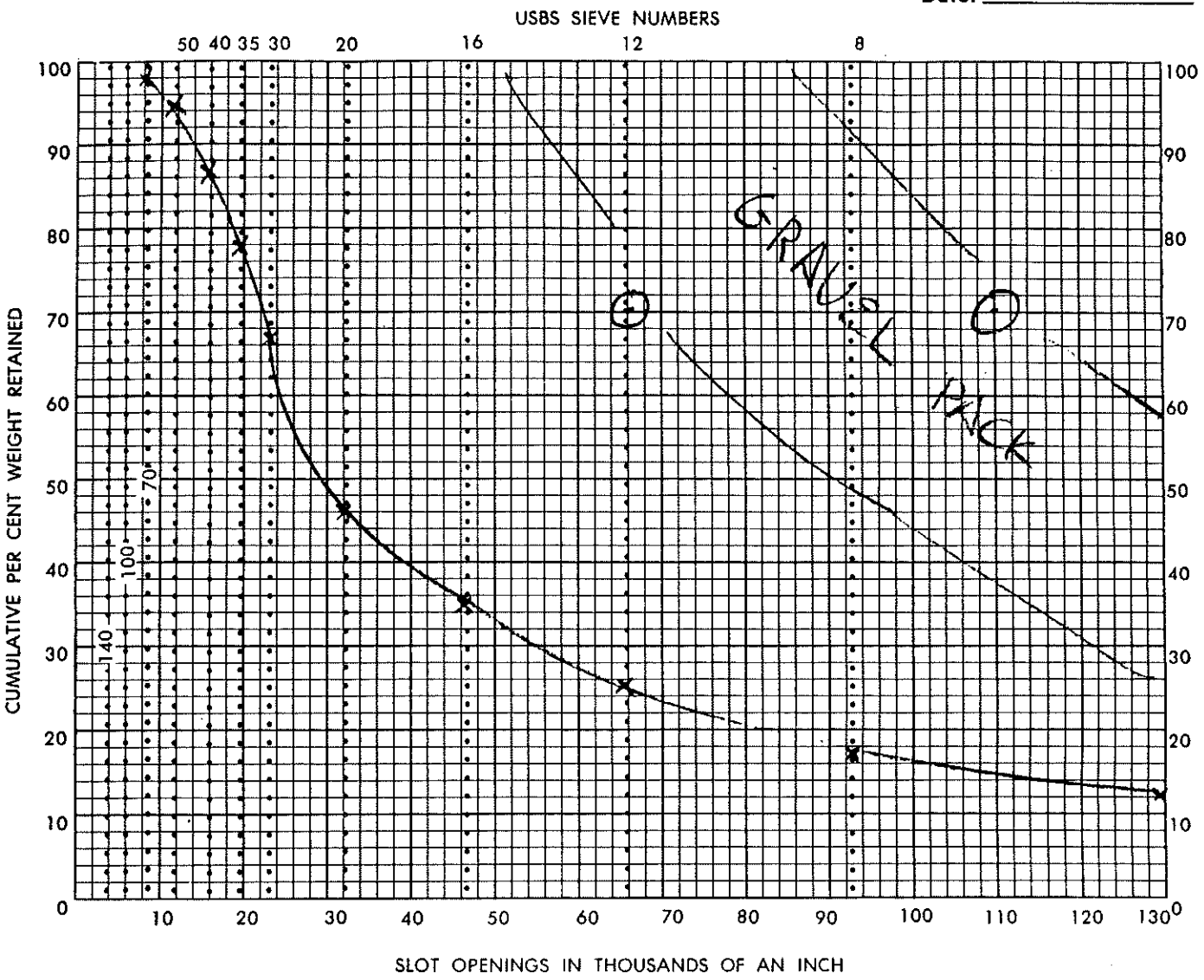
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 51' to _____

Well Designation: DuPont #436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	74	12
8	.0937	2.36	111	17
12	.0661	1.70	160	25
16	.0469	1.18	221	35
20	.0331	0.85	295	46
30	.0234	0.60	430	67
35	.0197	0.50	497	78
40	.0165	.425	556	87
50	.0117	.300	607	95
70	.0083	.212	623	98
100	.0059	.150	629	
140	.0041	.106	632	
	PAN		637	100

WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

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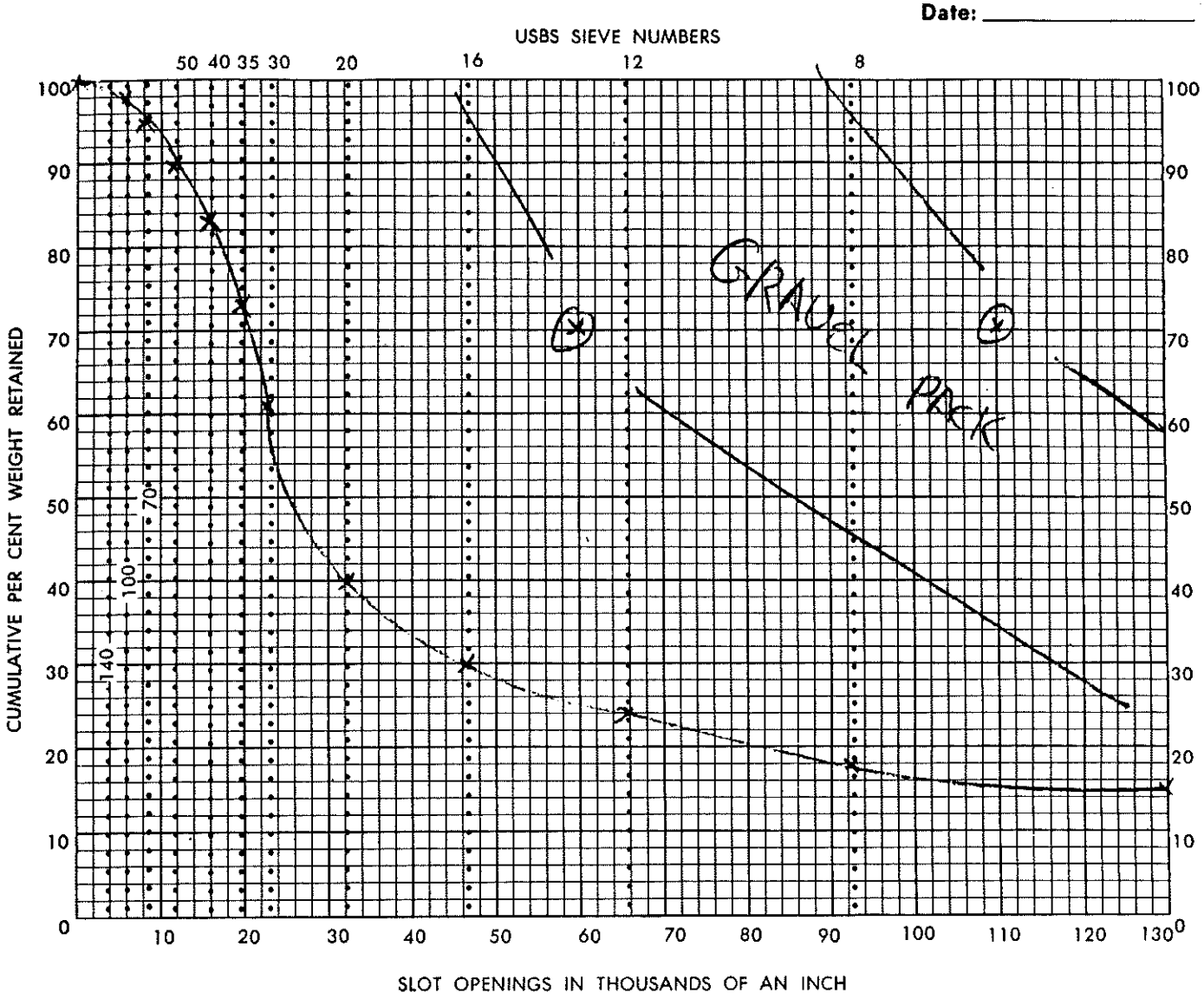
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 52' to _____

Well Designation: Du Pont # 436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	95	15
8	.0937	2.36	108	18
12	.0661	1.70	149	24
16	.0469	1.18	185	30
20	.0331	0.85	244	40
30	.0234	0.60	377	61
35	.0197	0.50	451	73
40	.0165	.425	507	83
50	.0117	.300	553	90
70	.0083	.212	582	95
100	.0059	.150	602	98
140	.0041	.106	605	99
	PAN		614	100

WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

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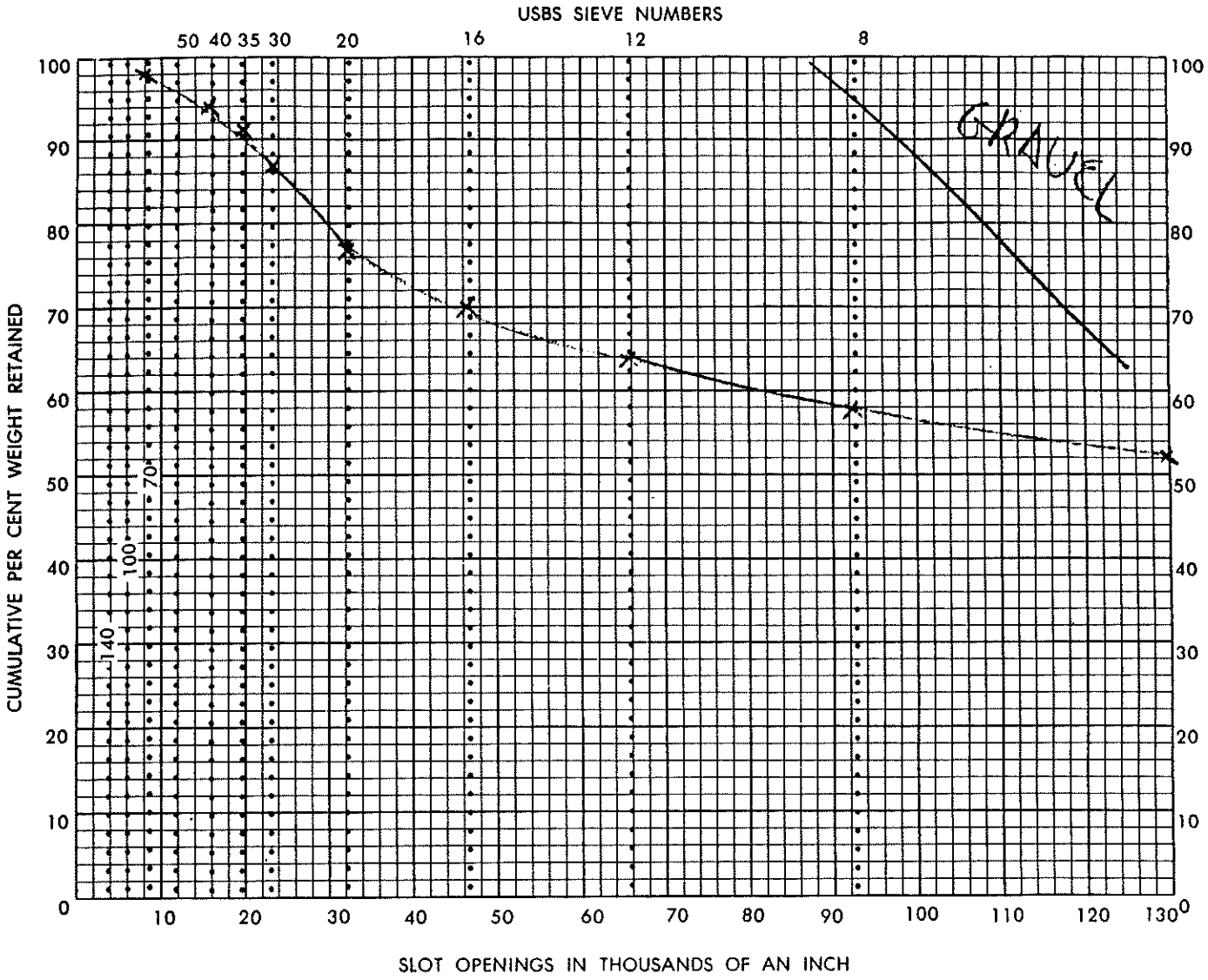
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 54' to _____

Well Designation: Du Pont # 436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	244	52
8	.0937	2.36	274	58
12	.0661	1.70	302	64
16	.0469	1.18	331	70
20	.0331	0.85	362	77
30	.0234	0.60	408	87
35	.0197	0.50	430	91
40	.0165	.425	443	94
50	.0117	.300	456	97
70	.0083	.212	462	98
100	.0059	.150	466	99
140	.0041	.106	467	
	PAN		470	100

WELL STRAINER CORP.

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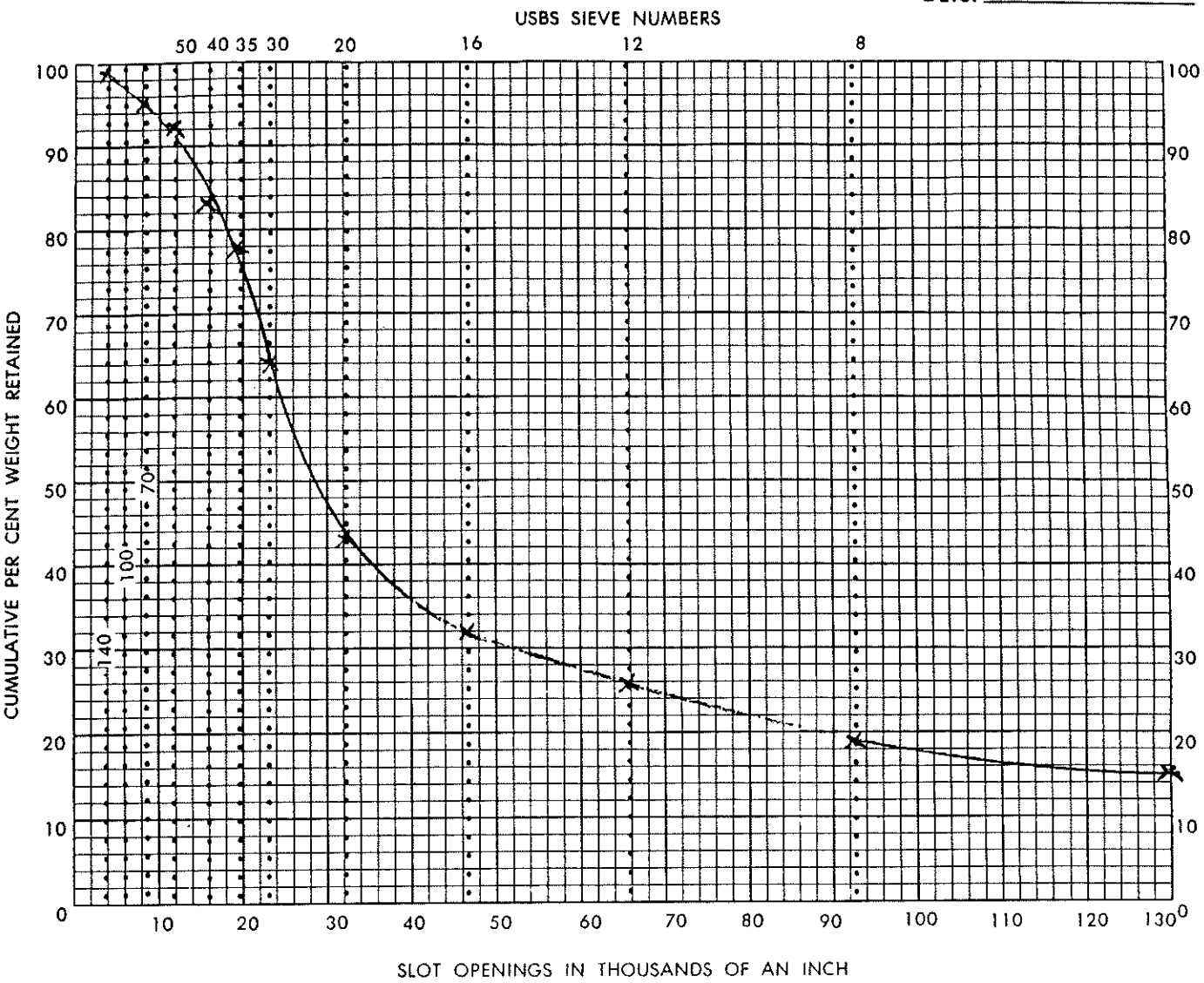
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 56' to _____

Well Designation: Du Pont #436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. Static Level _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	94	15
8	.0937	2.36	120	19
12	.0661	1.70	162	26
16	.0469	1.18	195	32
20	.0331	0.85	265	43
30	.0234	0.60	396	64
35	.0197	0.50	482	78
40	.0165	.425	513	83
50	.0117	.300	566	92
70	.0083	.212	590	95
100	.0059	.150	610	
140	.0041	.106	614	99
	PAN		618	

FORM 800

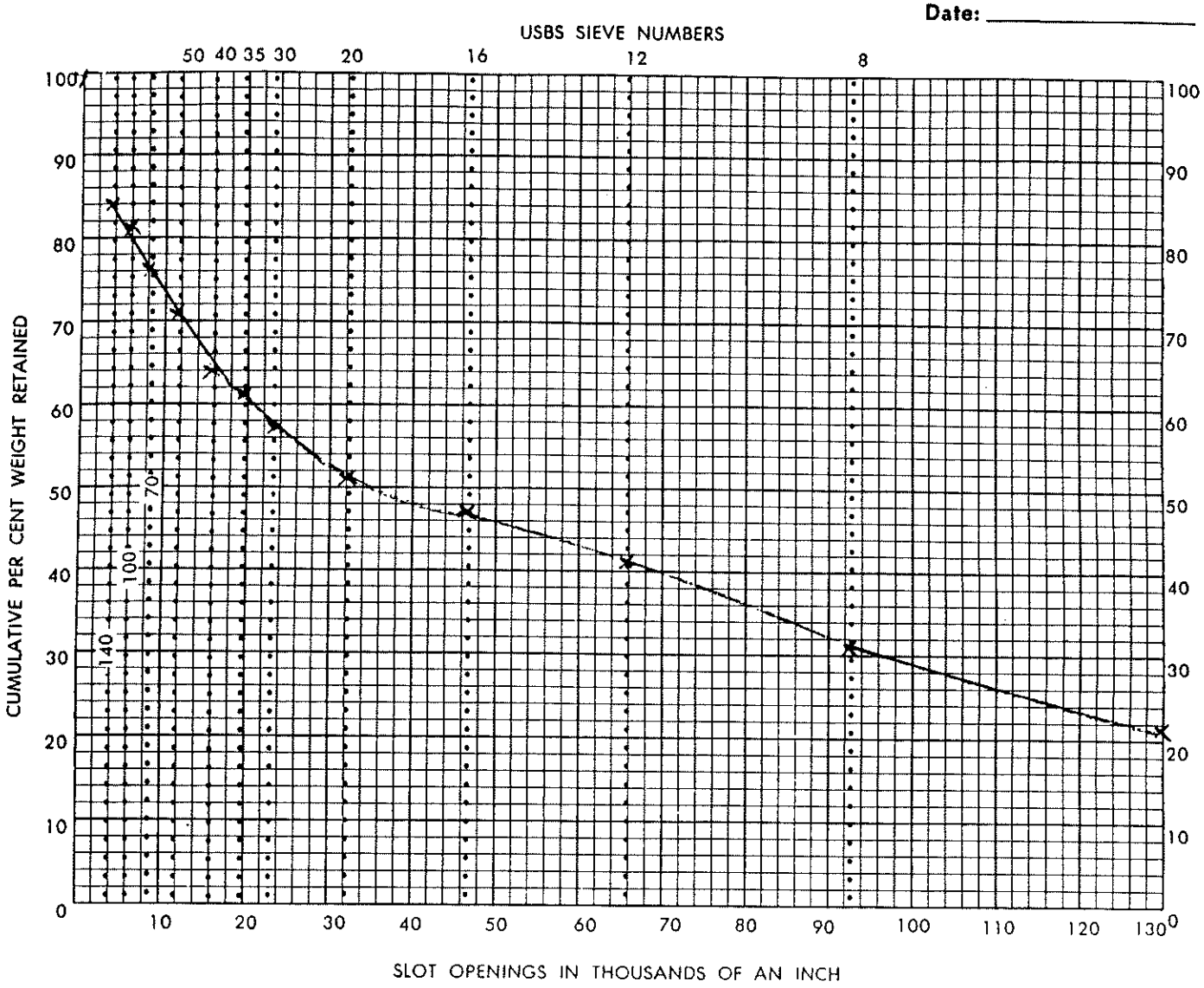
WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212
Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 563' to _____

Well Designation: DuPont #436

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. Static Level _____ ft.

Remarks: Heavy Clay

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	105	21
8	.0937	2.36	152	31
12	.0661	1.70	202	41
16	.0469	1.18	230	47
20	.0331	0.85	248	51
30	.0234	0.60	282	57
35	.0197	0.50	297	61
40	.0165	.425	315	64
50	.0117	.300	350	71
70	.0083	.212	375	76
100	.0059	.150	397	81
140	.0041	.106	413	84
	PAN		491	100

FORM 800

WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

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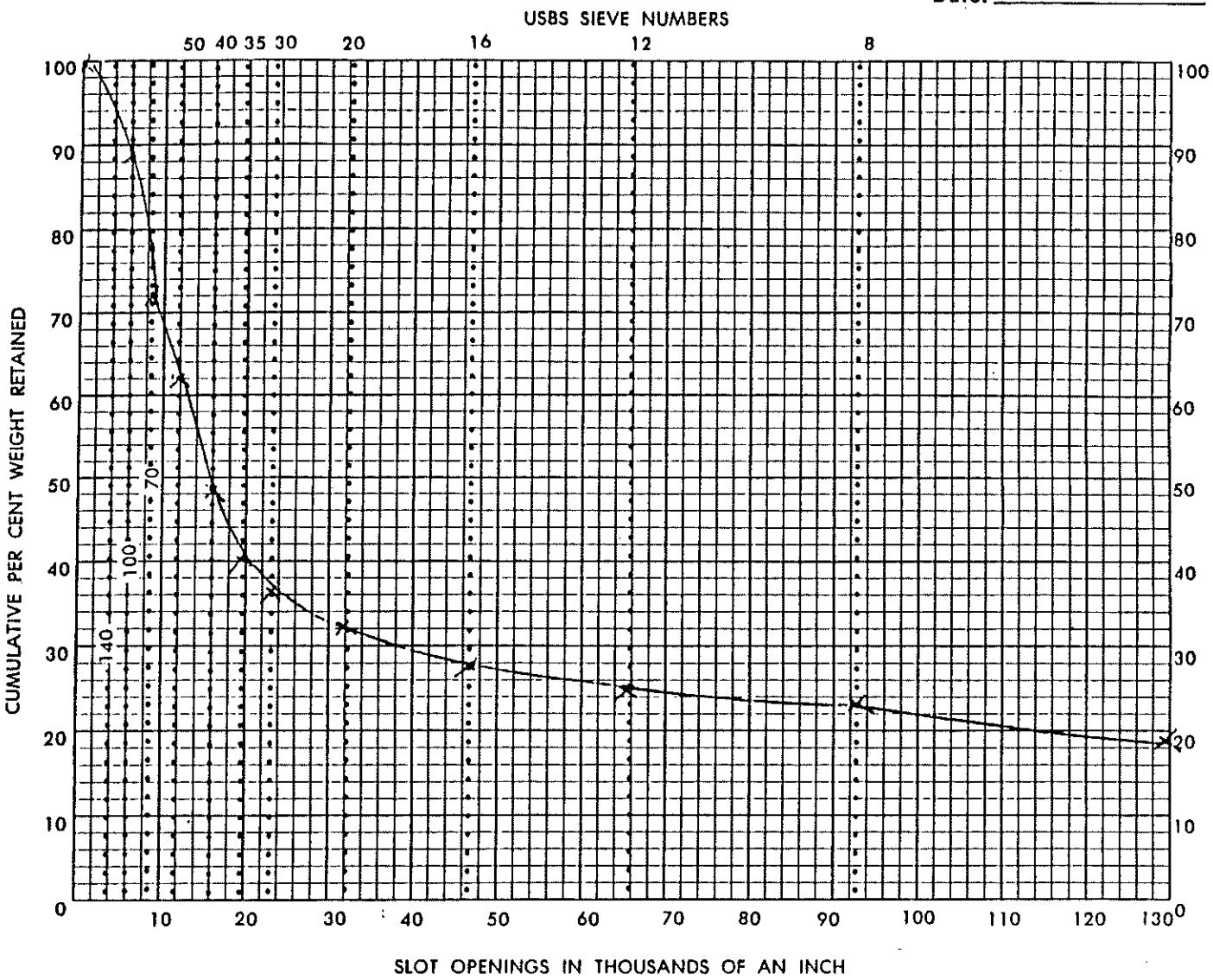
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 33 to 34.5

Well Designation: 444

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: CLAY

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	113	19
8	.0937	2.36	141	23
12	.0661	1.70	148	25
16	.0469	1.18	170	20
20	.0331	0.85	194	32
30	.0234	0.60	217	36
35	.0197	0.50	244	40
40	.0165	.425	288	48
50	.0117	.300	373	62
70	.0083	.212	436	72
100	.0059	.150	476	79
140	.0041	.106	–	–
	PAN		605	100

WELL STRAINER CORP.

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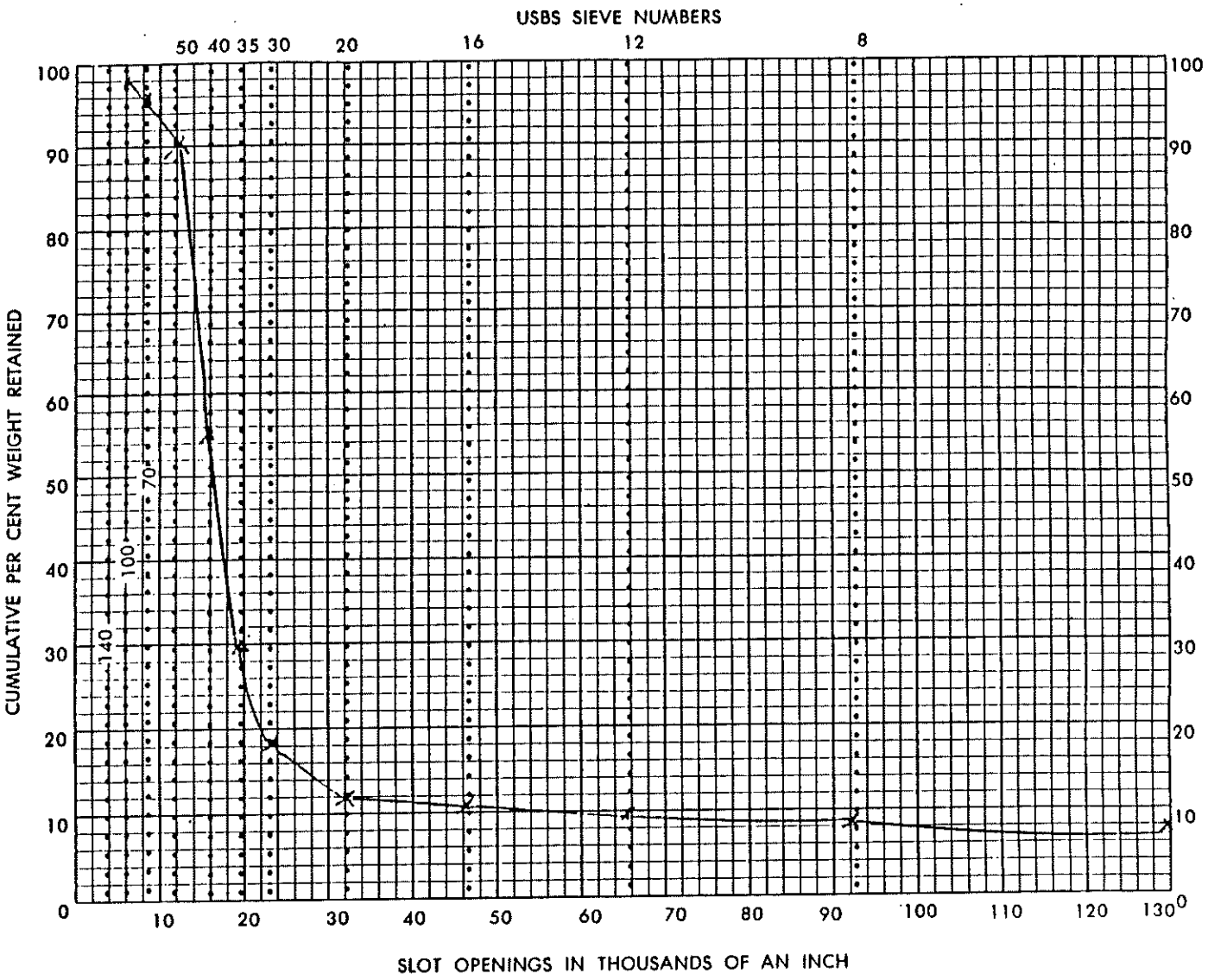
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 39 to 40.5

Well Designation: 4411

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: CLAY

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	34	8
8	.0937	2.36	38	9
12	.0661	1.70	42	10
16	.0469	1.18	48	11
20	.0331	0.85	55	12
30	.0234	0.60	83	19
35	.0197	0.50	132	30
40	.0165	.425	241	55
50	.0117	.300	397	90
70	.0083	.212	423	96
100	.0059	.150	434	99
140	.0041	.106		
	PAN		440	100

WELL STRAINER CORP.

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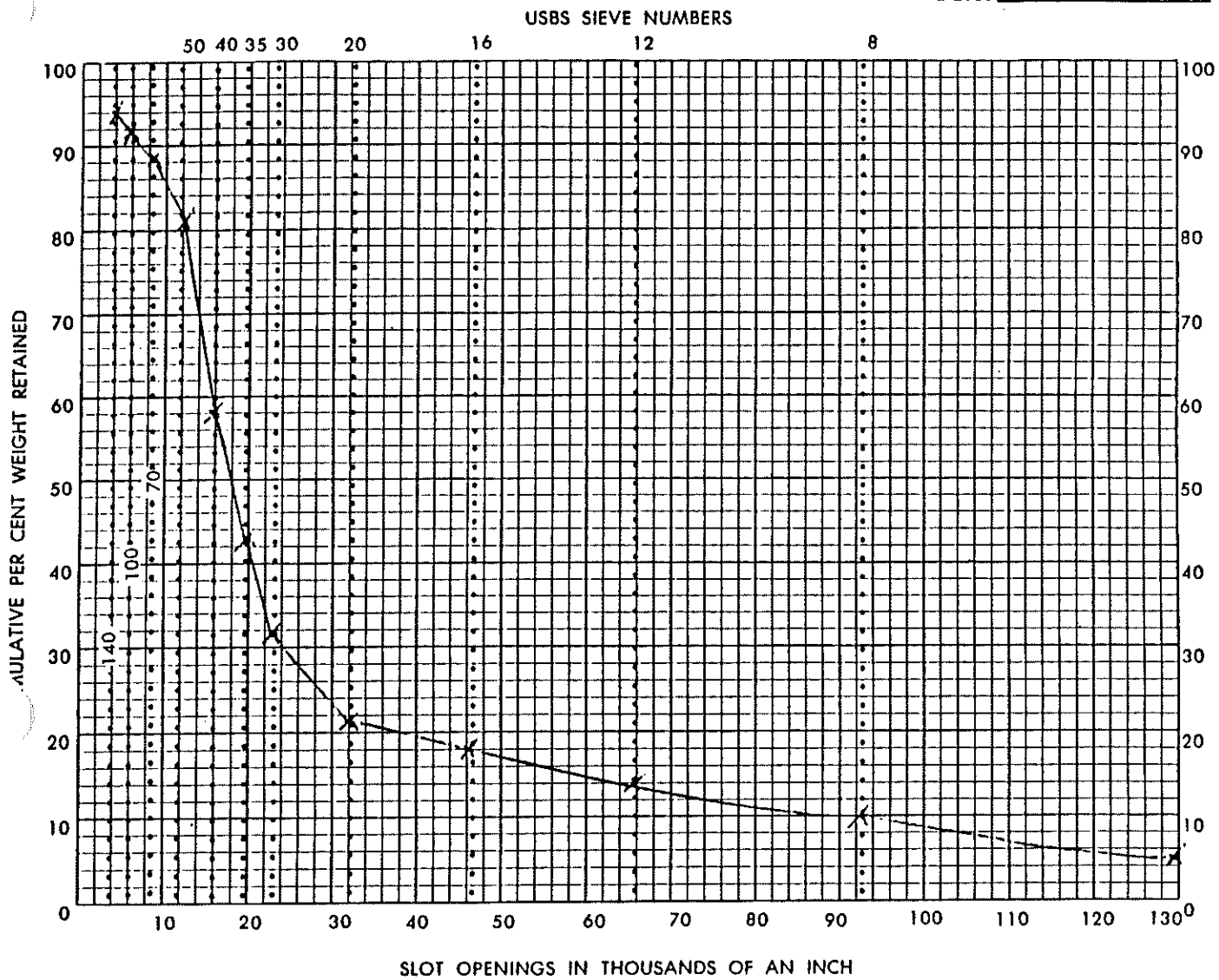
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 42 to 43.5

Well Designation: 4144

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	35	5
8	.0937	2.36	71	10
12	.0661	1.70	103	14
16	.0469	1.18	130	18
20	.0331	0.85	165	21
30	.0234	0.60	232	32
35	.0197	0.50	314	43
40	.0165	.425	422	58
50	.0117	.300	592	81
70	.0083	.212	641	88
100	.0059	.150	667	91
140	.0041	.106	686	94
	PAN		730	100

WELL STRAINER CORP.

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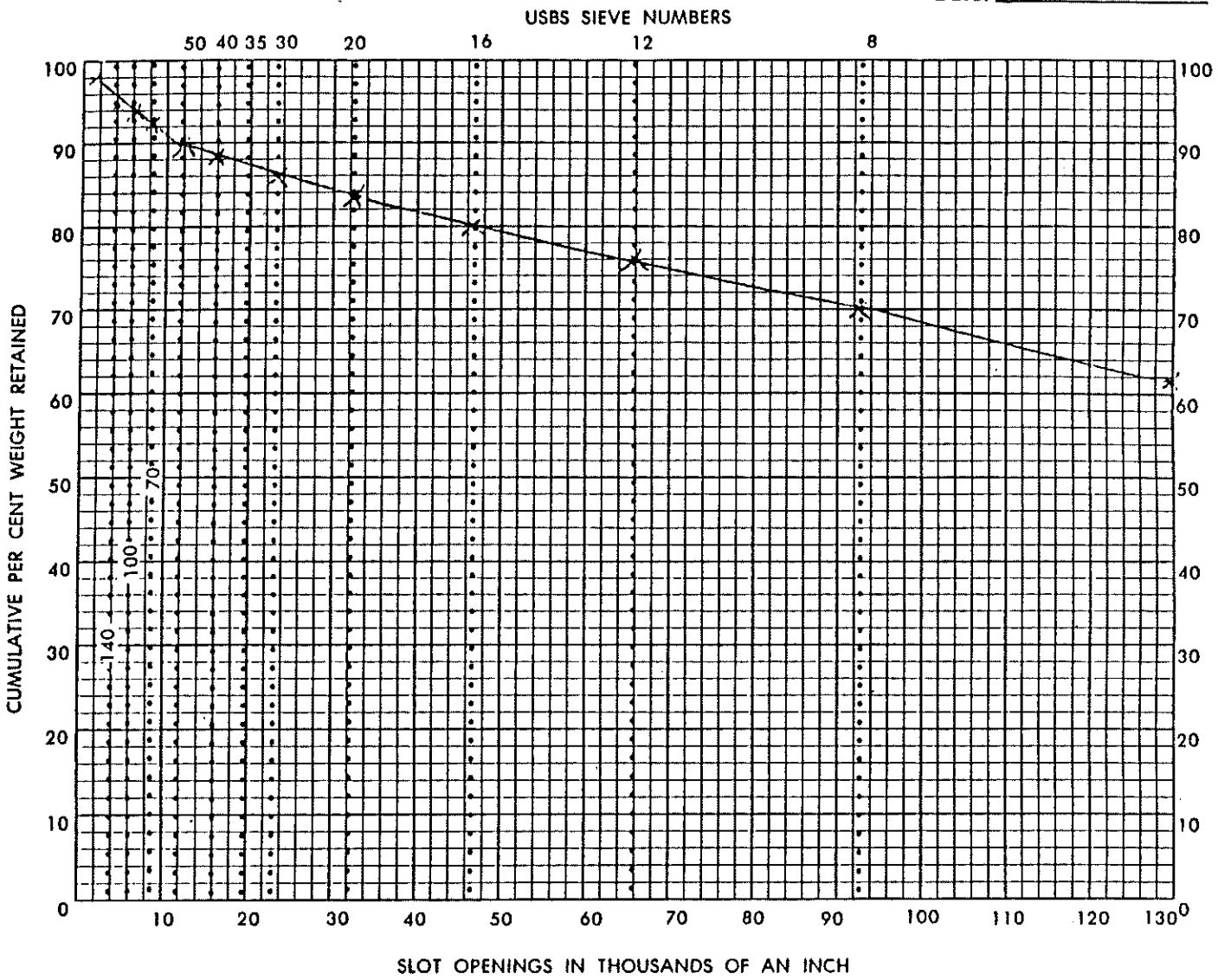
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 45 to 46.5

Well Designation: 444

Sample received from: Penn Dill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	352	62
8	.0937	2.36	400	70
12	.0661	1.70	435	76
16	.0469	1.18	457	80
20	.0331	0.85	472	85
30	.0234	0.60	491	86
35	.0197	0.50	500	88
40	.0165	.425	510	89
50	.0117	.300	525	92
70	.0083	.212	533	94
100	.0059	.150	542	95
140	.0041	.106	548	96
	PAN		570	100

WELL STRAINER CORP.

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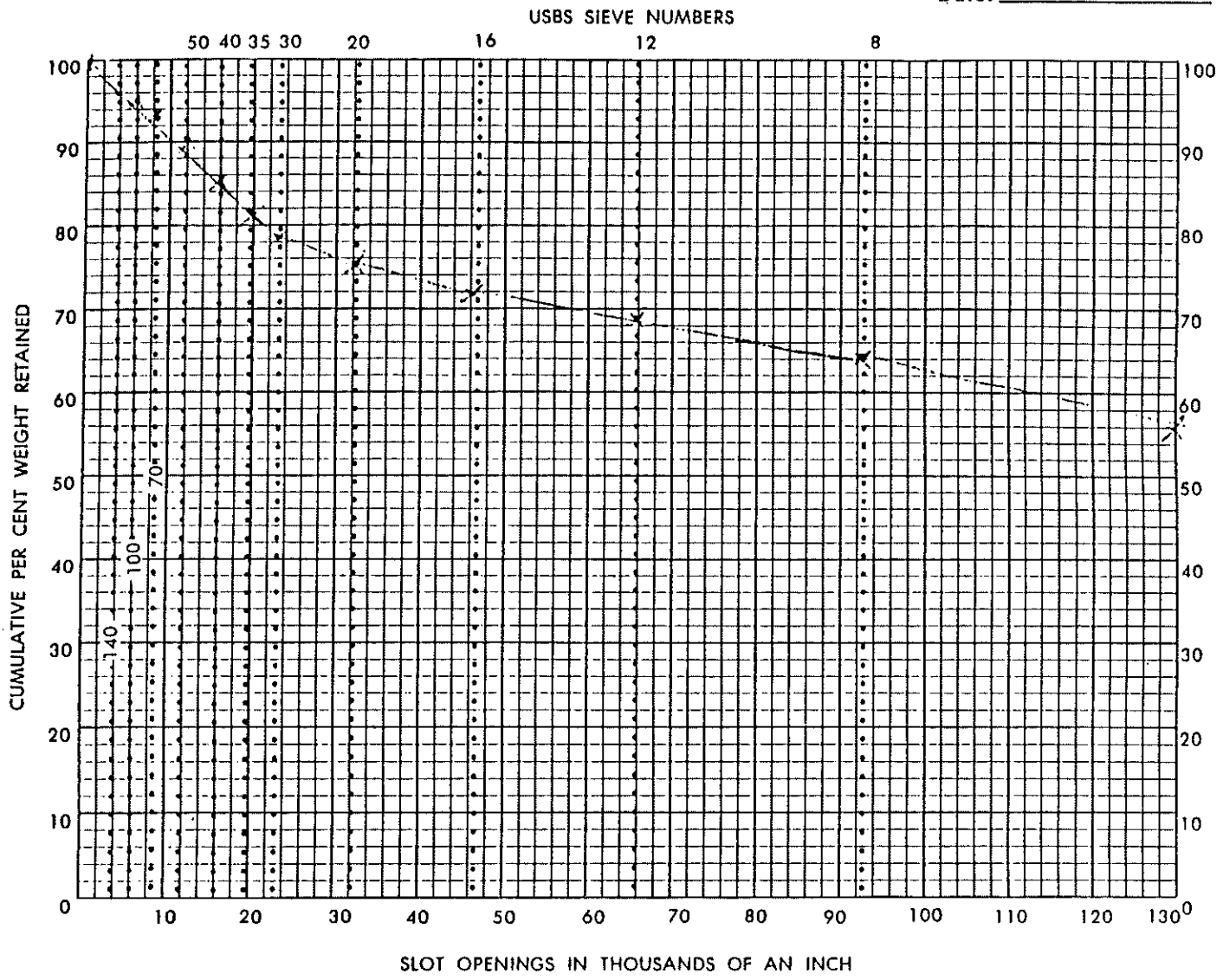
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 48 to 49.5

Well Designation: Grill

Sample received from: From Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	422	56
8	.0937	2.36	480	64
12	.0661	1.70	518	69
16	.0469	1.18	544	72
20	.0331	0.85	563	75
30	.0234	0.60	590	79
35	.0197	0.50	611	81
40	.0165	.425	645	85
50	.0117	.300	623	90
70	.0083	.212	695	95
100	.0059	.150	710	75
140	.0041	.106	723	76
	PAN		751	100

WELL STRAINER CORP.

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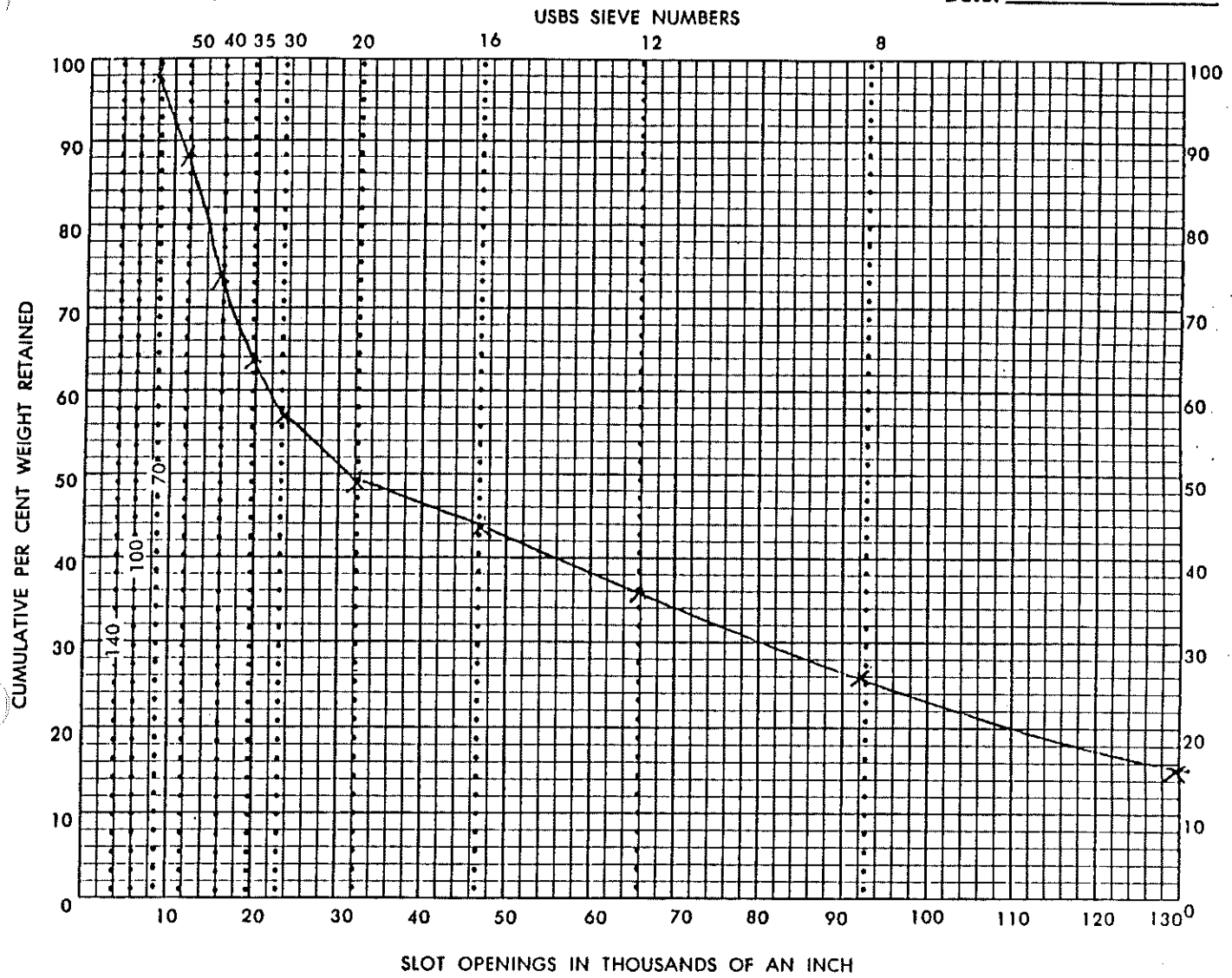
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 51 to 52.5

Well Designation: 444

Sample received from: Rinn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ In. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	56	15
8	.0937	2.36	100	26
12	.0661	1.70	139	36
16	.0469	1.18	166	43
20	.0331	0.85	188	49
30	.0234	0.60	221	57
35	.0197	0.50	247	64
40	.0165	.425	286	74
50	.0117	.300	343	89
70	.0083	.212	385	99
100	.0059	.150	393	
140	.0041	.106	397	
	PAN		388	

WELL STRAINER CORP.

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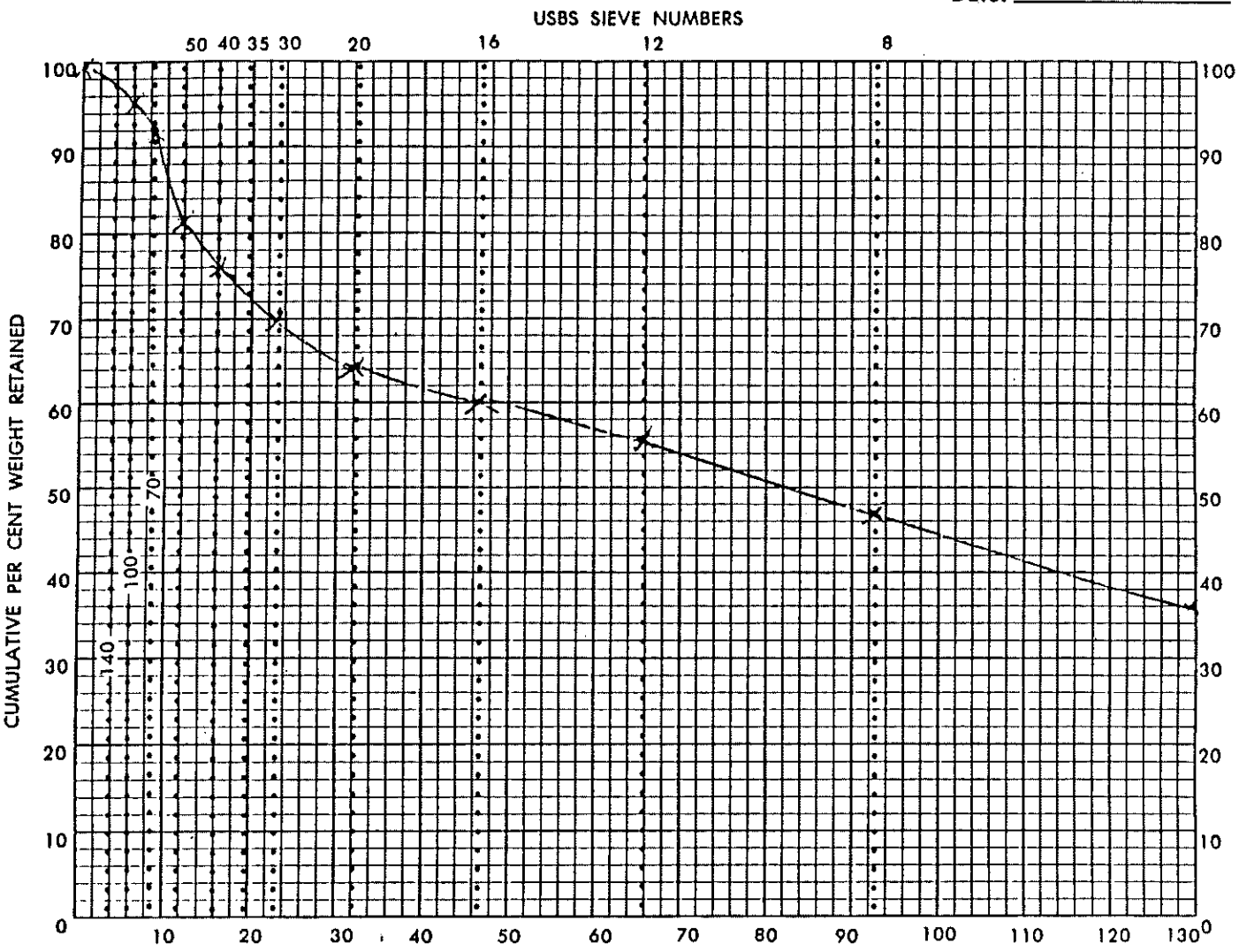
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 54 to 55.5

Well Designation: 444

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	112	36
8	.0937	2.36	145	47
12	.0661	1.70	171	56
16	.0469	1.18	185	60
20	.0331	0.85	197	64
30	.0234	0.60	216	70
35	.0197	0.50	233	76
40	.0165	.425	251	81
50	.0117	.300	283	92
70	.0083	.212	294	95
100	.0059	.150	298	97
140	.0041	.106	301	98
	PAN		308	100

WELL STRAINER CORP.

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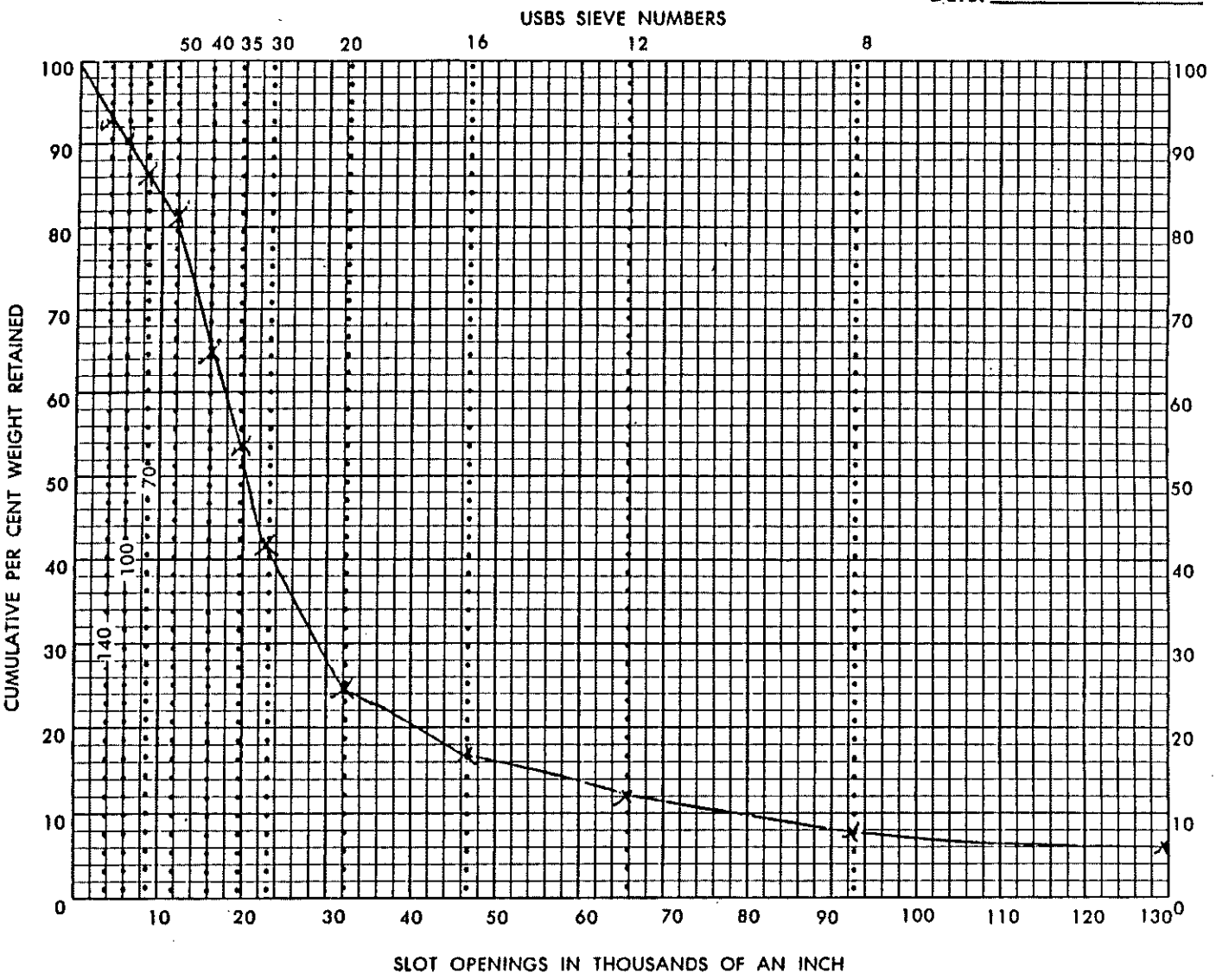
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 57 to 58.5

Well Designation: 4614

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	41	6
8	.0937	2.36	59	8
12	.0661	1.70	86	12
16	.0469	1.18	123	17
20	.0331	0.85	182	25
30	.0234	0.60	313	42
35	.0197	0.50	401	54
40	.0165	.425	480	65
50	.0117	.300	598	81
70	.0083	.212	637	86
100	.0059	.150	667	90
140	.0041	.106	682	92
	PAN		740	100

FORM 800

WELL STRAINER CORP.

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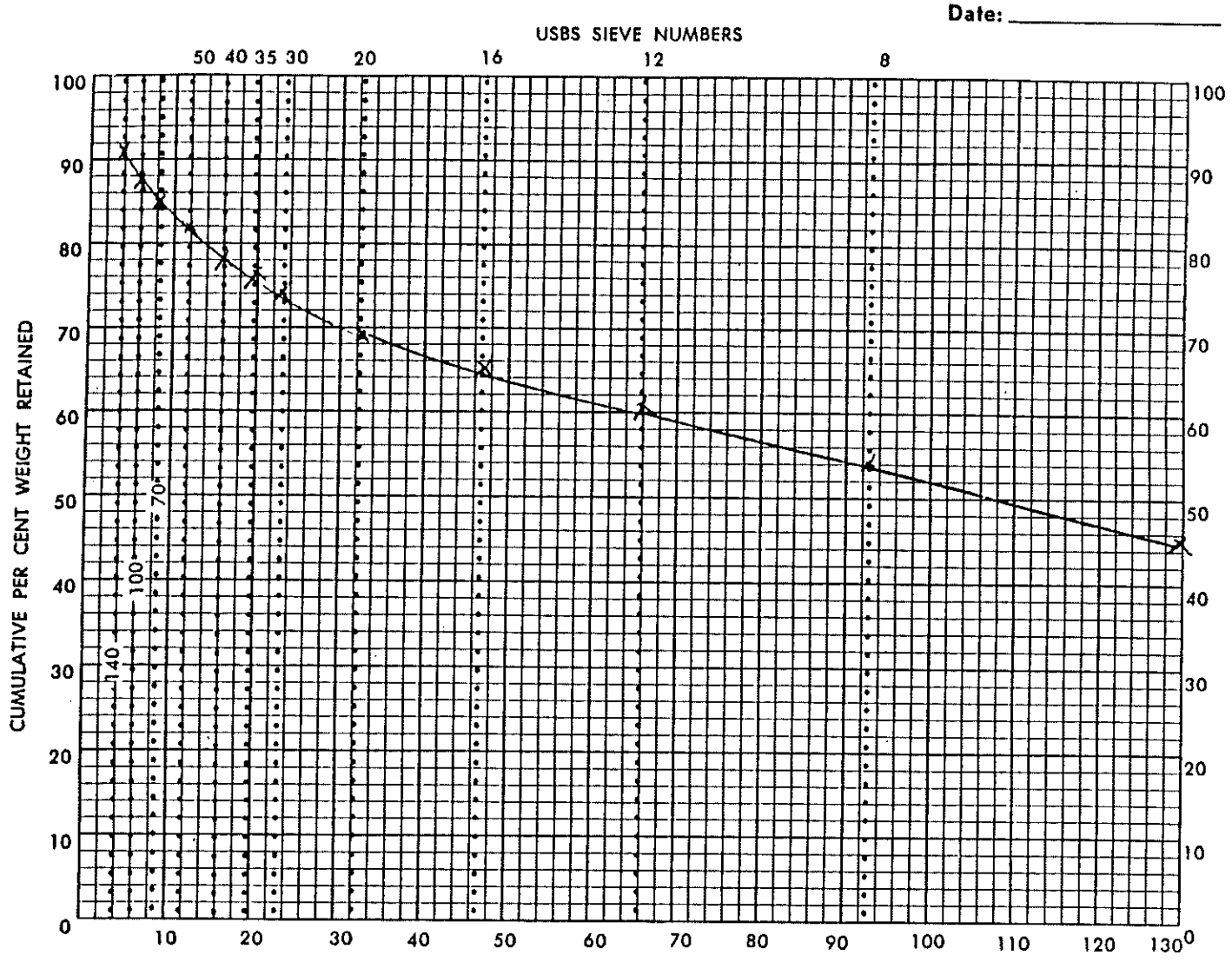
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 36 to 37.5

Well Designation: 445

Sample received from: PENN DRILL

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	220	45
8	.0937	2.36	264	54
12	.0661	1.70	293	60
16	.0469	1.18	316	65
20	.0331	0.85	335	69
30	.0234	0.60	361	74
35	.0197	0.50	370	76
40	.0165	.425	380	78
50	.0117	.300	400	82
70	.0083	.212	413	85
100	.0059	.150	424	87
140	.0041	.106	439	91
	PAN		486	100

FORM 800

WELL STRAINER CORP.

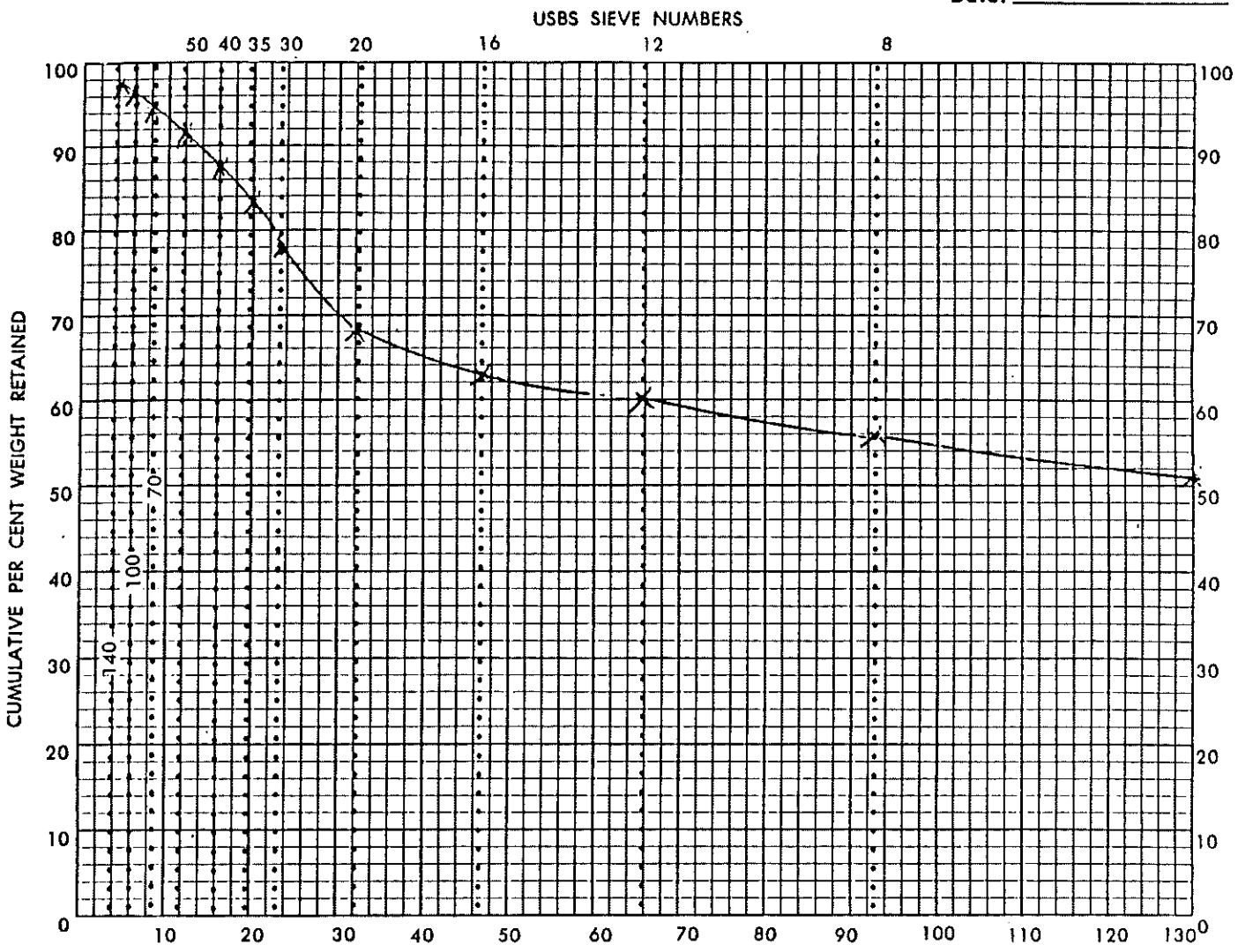
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 39 to 40.5

Well Designation: 445

Sample received from: Jem Bill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	423	51
8	.0937	2.36	462	56
12	.0661	1.70	490	60
16	.0469	1.18	519	63
20	.0331	0.85	562	68
30	.0234	0.60	645	78
35	.0197	0.50	687	83
40	.0165	.425	718	87
50	.0117	.300	753	91
70	.0083	.212	773	94
100	.0059	.150	789	96
140	.0041	.106	797	97
	PAN		824	100

FORM 800

WELL STRAINER CORP.

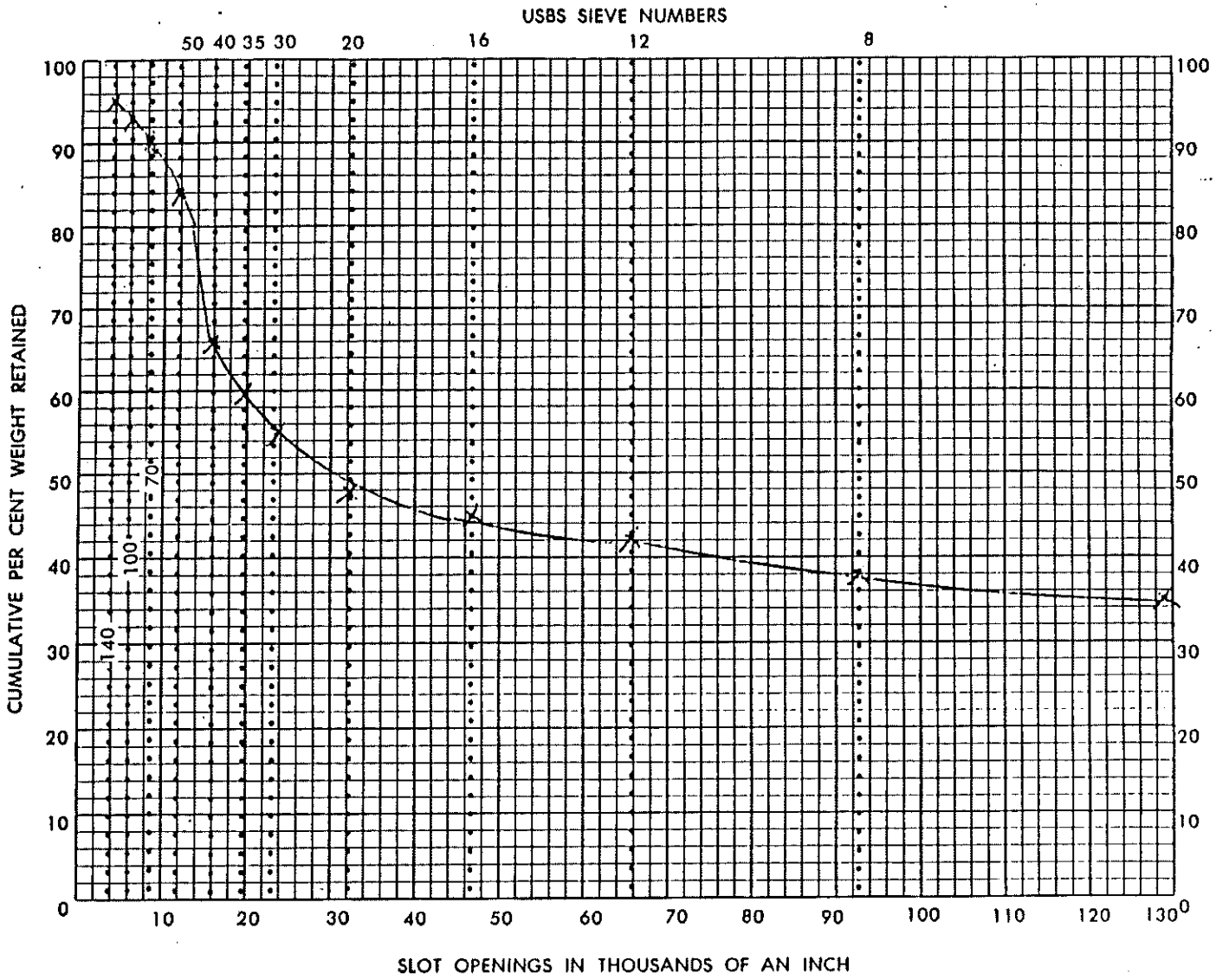
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 42 to 43.5

Well Designation: 4145

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	200	35
8	.0937	2.36	221	38
12	.0661	1.70	240	42
16	.0469	1.18	257	45
20	.0331	0.85	275	48
30	.0234	0.60	314	55
35	.0197	0.50	344	60
40	.0165	.425	380	66
50	.0117	.300	483	84
70	.0083	.212	515	70
100	.0059	.150	535	93
140	.0041	.106	546	95
	PAN		575	100

WELL STRAINER CORP.

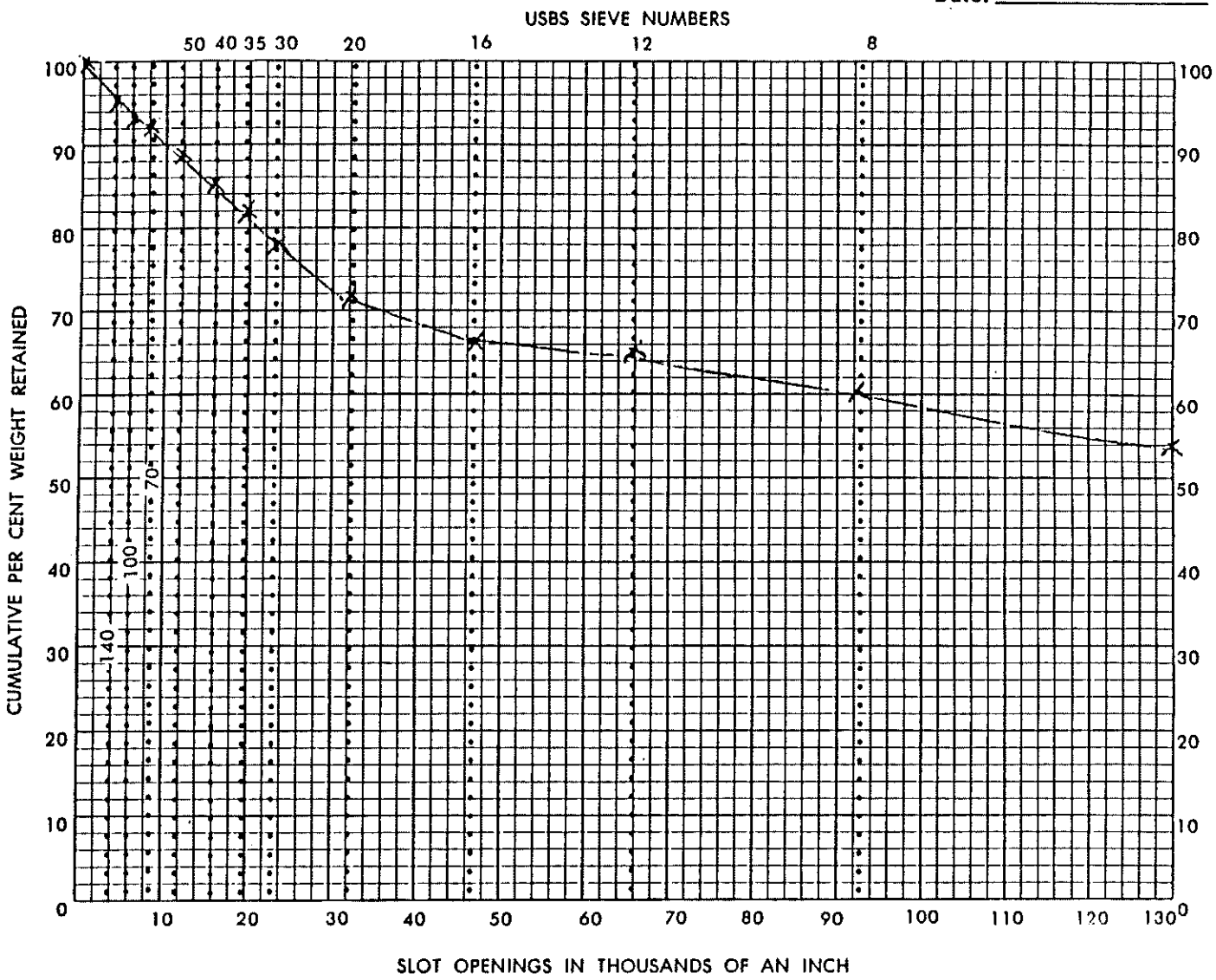
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 45 to 46.5

Well Designation: H45

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	423	54
8	.0937	2.36	471	60
12	.0661	1.70	506	65
16	.0469	1.18	535	66
20	.0331	0.85	564	72
30	.0234	0.60	612	78
35	.0197	0.50	638	82
40	.0165	.425	661	85
50	.0117	.300	694	89
70	.0083	.212	714	92
100	.0059	.150	726	93
140	.0041	.106	740	95
	PAN		780	100

WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

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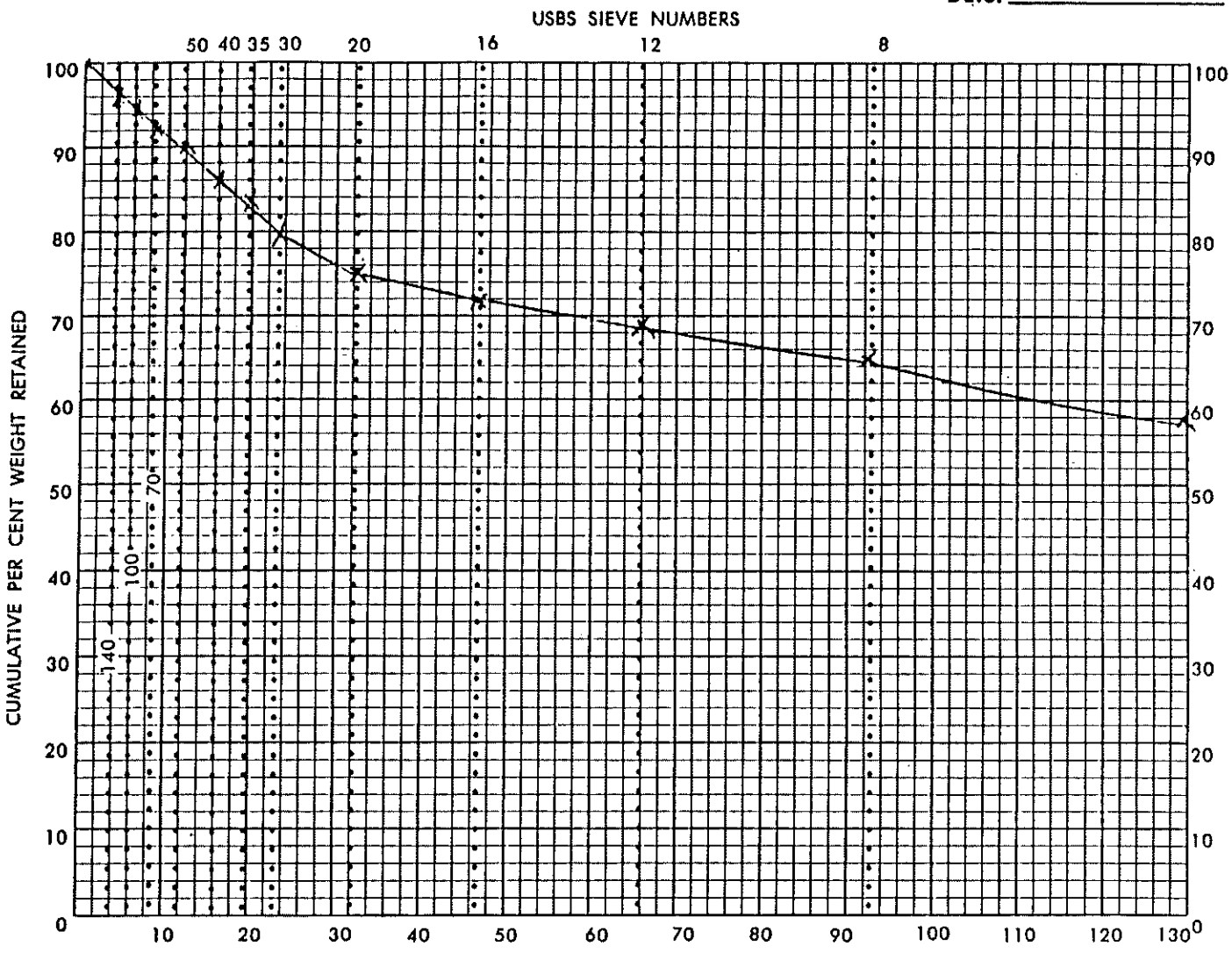
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 48 to 49.5

Well Designation: 445

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	263	58
8	.0937	2.36	293	65
12	.0661	1.70	310	69
16	.0469	1.18	324	72
20	.0331	0.85	337	75
30	.0234	0.60	361	80
35	.0197	0.50	376	84
40	.0165	.425	387	86
50	.0117	.300	406	90
70	.0083	.212	416	92
100	.0059	.150	424	94
140	.0041	.106	433	96
	PAN		450	100

WELL STRAINER CORP.

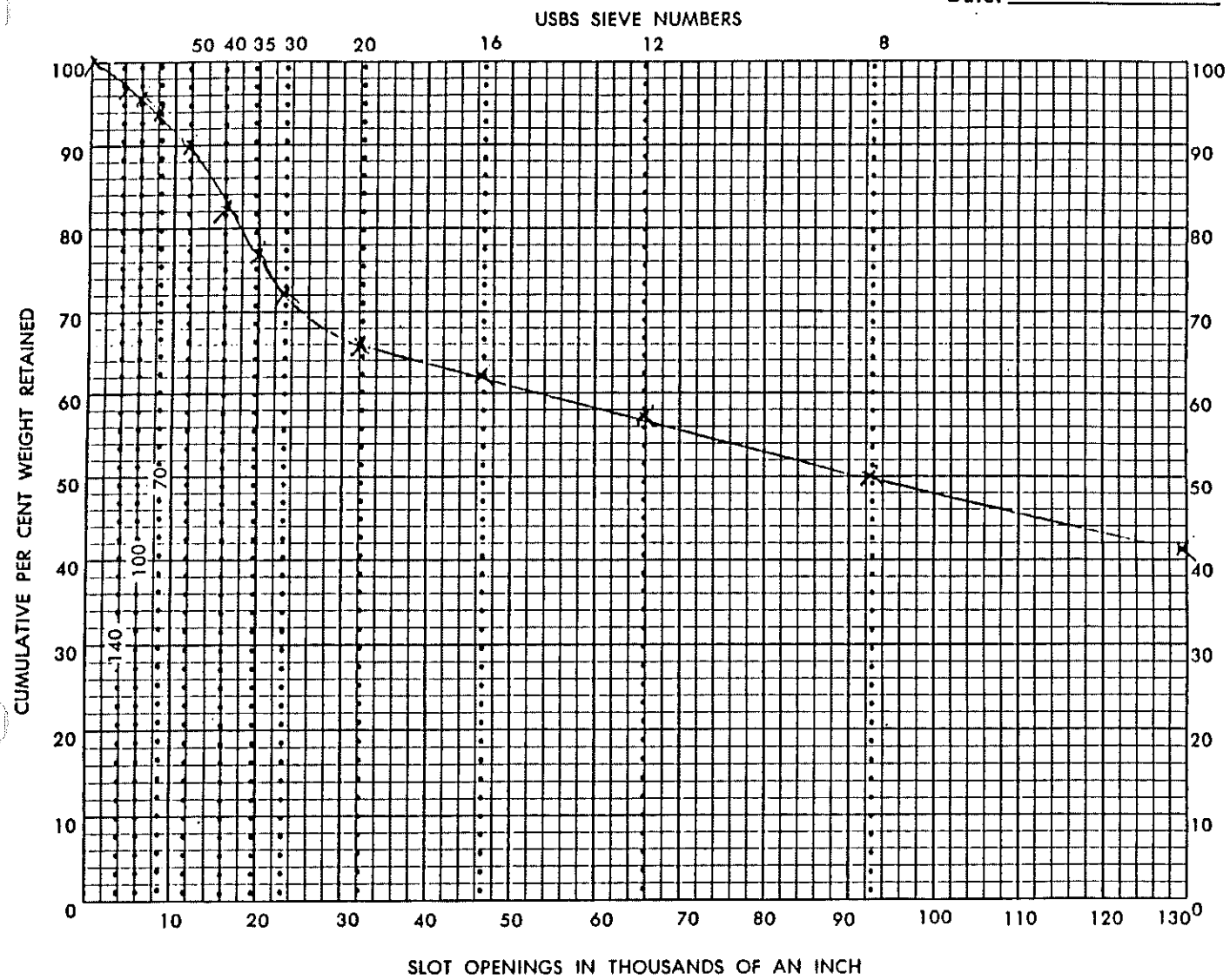
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 51 to 52.5

Well Designation: 4145

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	297	41
8	.0937	2.36	362	50
12	.0661	1.70	414	87
16	.0469	1.18	499	67
20	.0331	0.85	477	66
30	.0234	0.60	523	72
35	.0197	0.50	557	77
40	.0165	.425	598	82
50	.0117	.300	659	90
70	.0083	.212	684	94
100	.0059	.150	696	96
140	.0041	.106	708	97
	PAN		728	100

WELL STRAINER CORP.

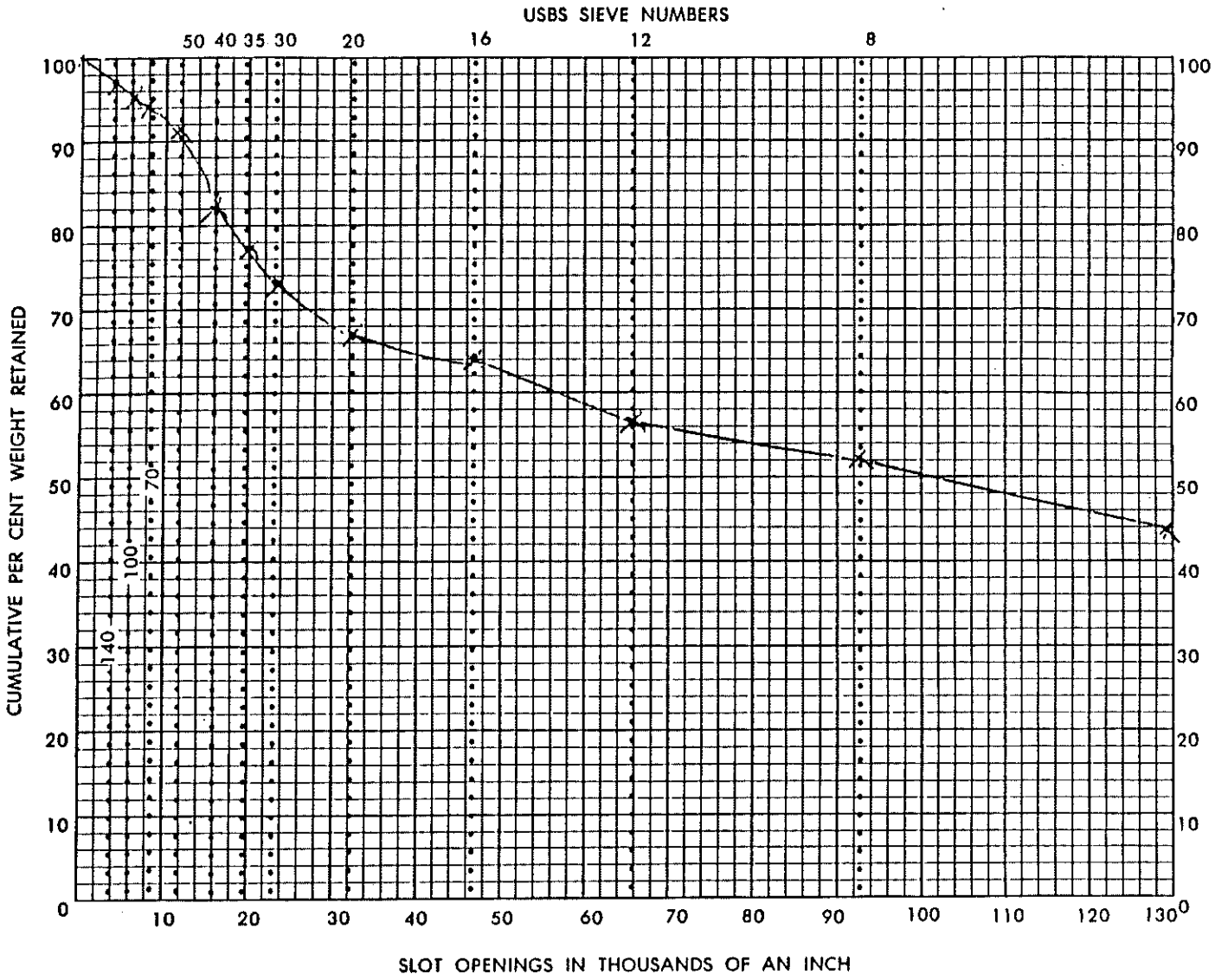
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 54 to 55.5

Well Designation: 445

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	205	43
8	.0937	2.36	249	52
12	.0661	1.70	271	57
16	.0469	1.18	304	64
20	.0331	0.85	322	67
30	.0234	0.60	350	73
35	.0197	0.50	371	77
40	.0165	.425	394	82
50	.0117	.300	433	91
70	.0083	.212	447	94
100	.0059	.150	455	95
140	.0041	.106	462	97
	PAN		470	100

WELL STRAINER CORP.

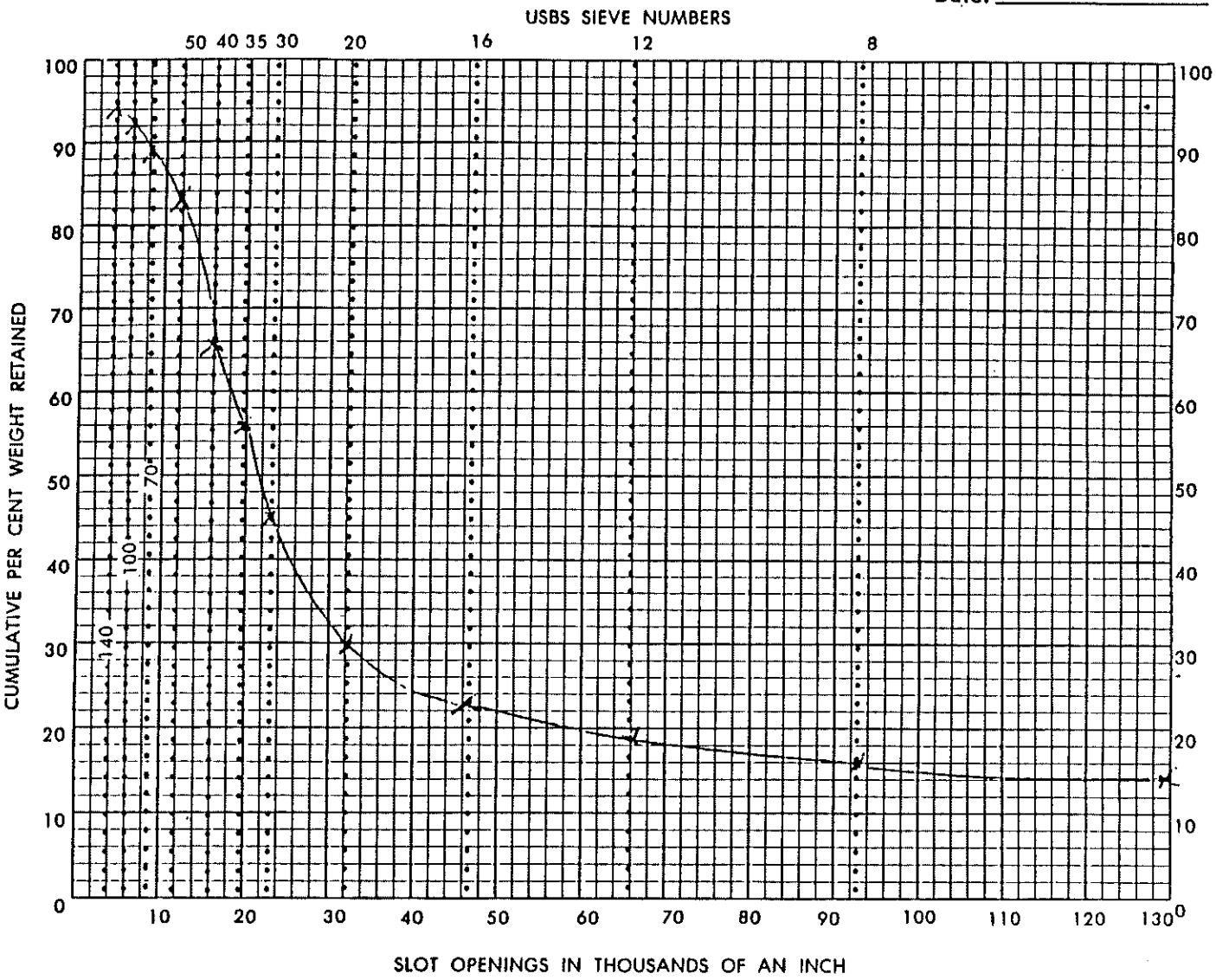
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 55,5 to 58.5

Well Designation: 445

Sample received from: Penn Drill

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

Slot Size Recommended: _____

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	68	14
8	.0937	2.36	81	16
12	.0661	1.70	96	19
16	.0469	1.18	116	23
20	.0331	0.85	149	30
30	.0234	0.60	226	45
35	.0197	0.50	282	56
40	.0165	.425	331	66
50	.0117	.300	413	83
70	.0083	.212	443	89
100	.0059	.150	460	92
140	.0041	.106	469	94
	PAN		500	100

WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

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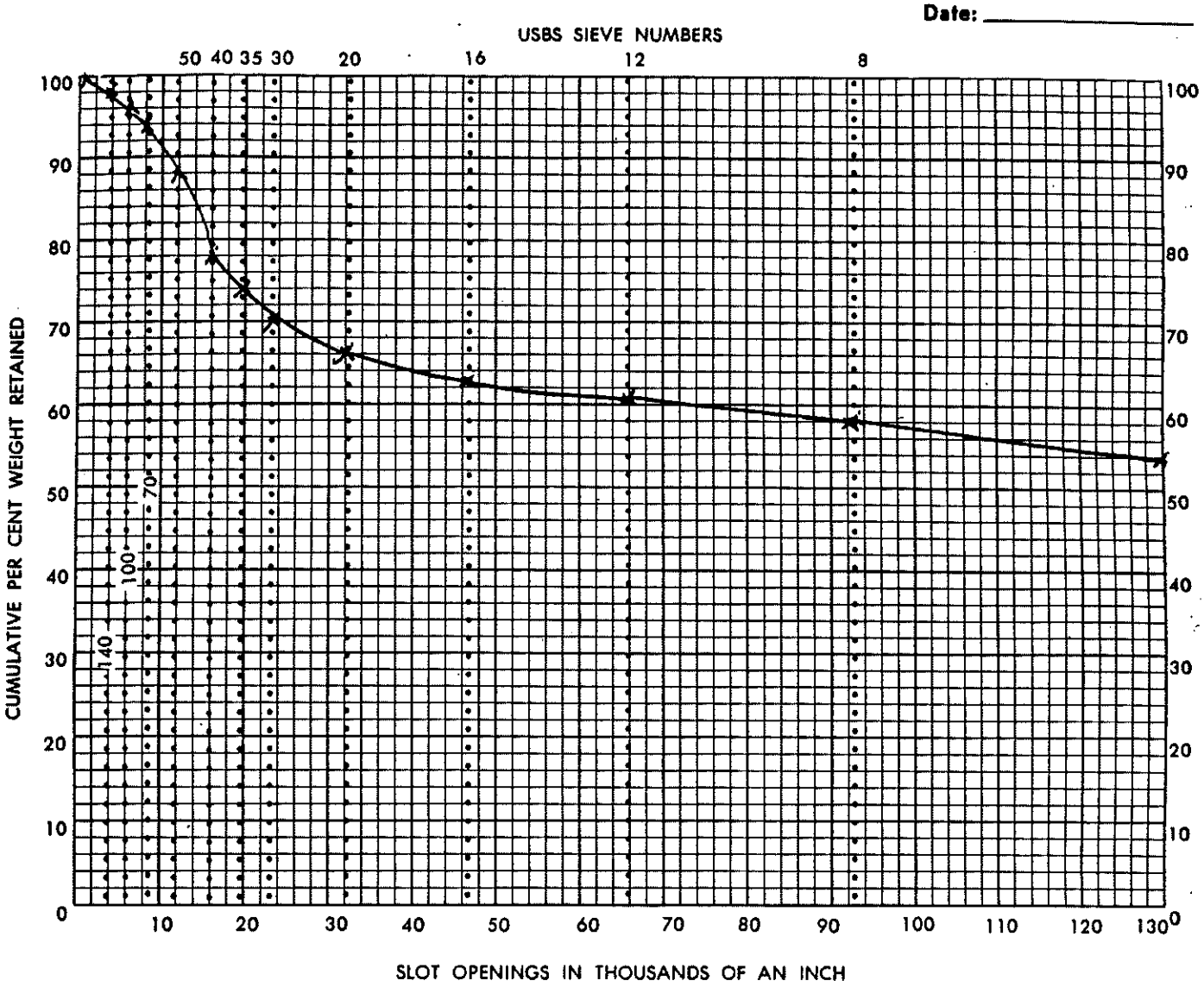
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 35 to 40

Well Designation: DuPont TW B

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: .100+

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	362	54
8	.0937	2.36	394	58
12	.0661	1.70	414	61
16	.0469	1.18	426	63
20	.0331	0.85	444	66
30	.0234	0.60	474	70
35	.0197	0.50	497	74
40	.0165	.425	527	78
50	.0117	.300	595	88
70	.0083	.212	635	94
100	.0059	.150	650	96
140	.0041	.106	660	98
	PAN		675	100

FORM 800

WELL STRAINER CORP.

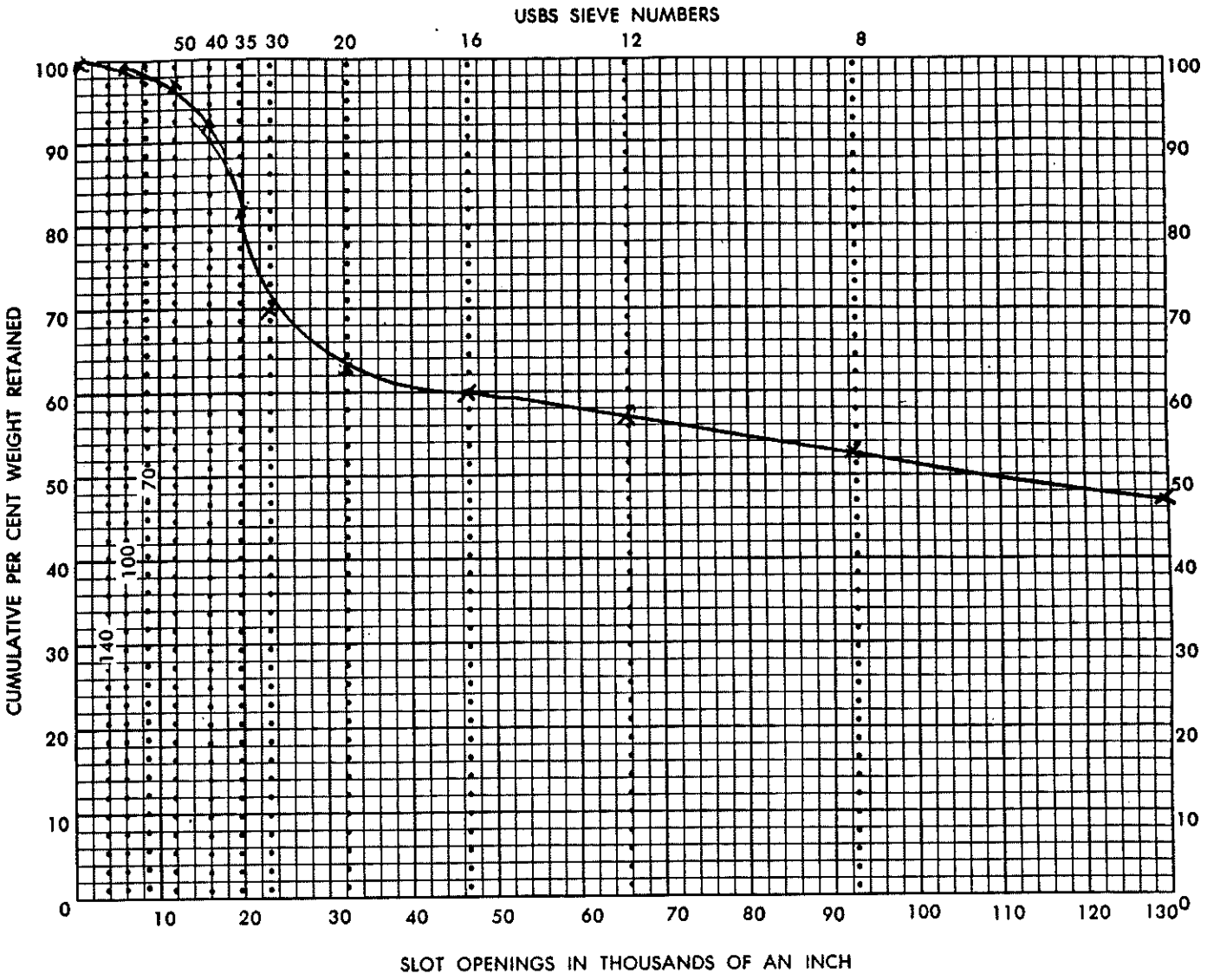
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 40 to 45

Well Designation: DuPont TWR

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. Static Level _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: .100+

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	315	47
8	.0937	2.36	354	53
12	.0661	1.70	379	57
16	.0469	1.18	400	60
20	.0331	0.85	422	63
30	.0234	0.60	470	70
35	.0197	0.50	506	76
40	.0165	.425	645	82
50	.0117	.300	615	92
70	.0083	.212	645	97
100	.0059	.150	655	98
140	.0041	.106	659	99
	PAN		665	100

WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

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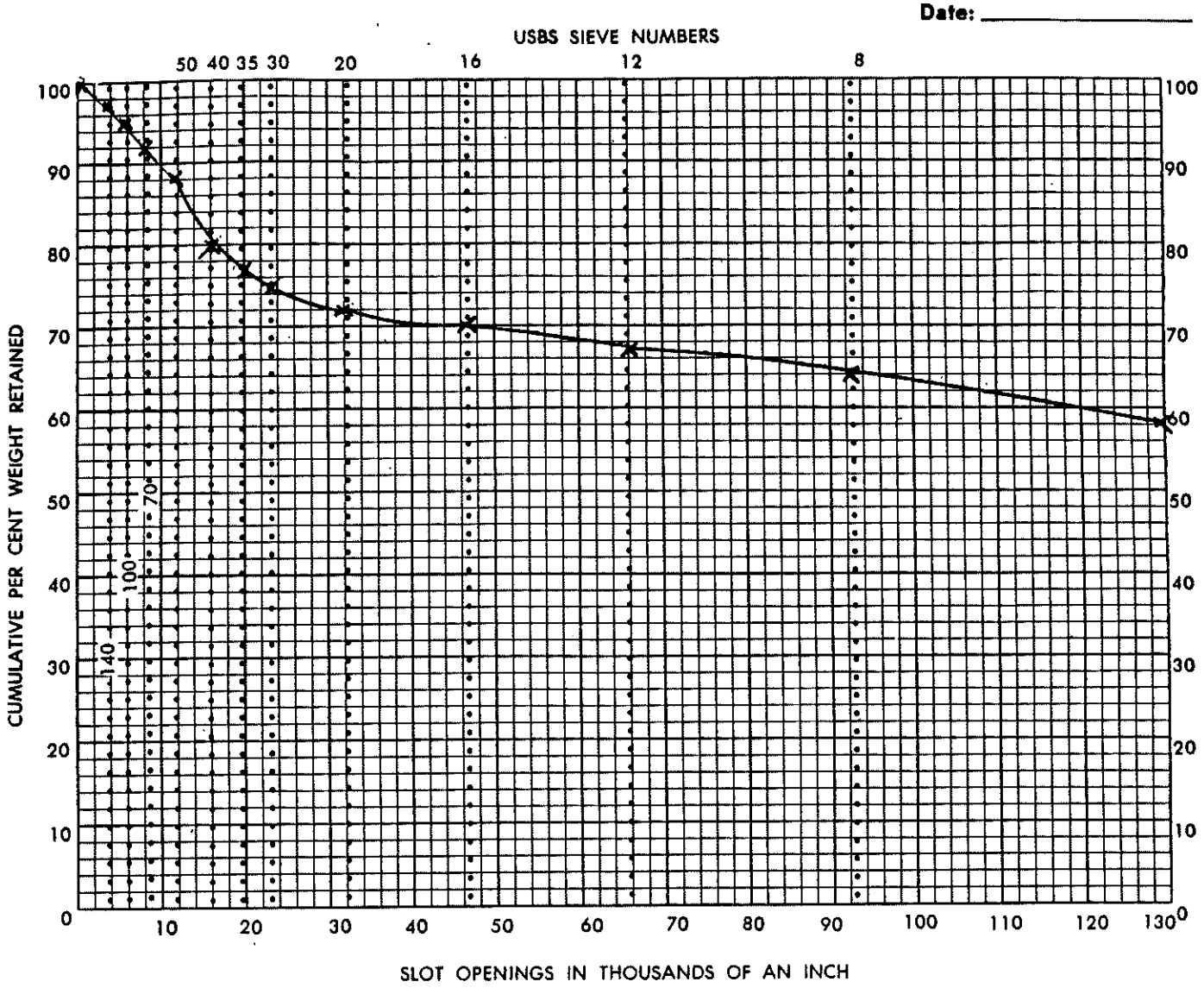
SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 45' to 50'

Well Designation: Du Pont TW B

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. 8 ¼ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: 100 +

Analysis by: _____

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	572	58
8	.0937	2.36	626	64
12	.0661	1.70	658	67
16	.0469	1.18	680	70
20	.0331	0.85	704	72
30	.0234	0.60	734	75
35	.0197	0.50	757	77
40	.0165	.425	786	80
50	.0117	.300	864	88
70	.0083	.212	900	92
100	.0059	.150	923	95
140	.0041	.106	943	96
	PAN		977	100

WELL STRAINER CORP.

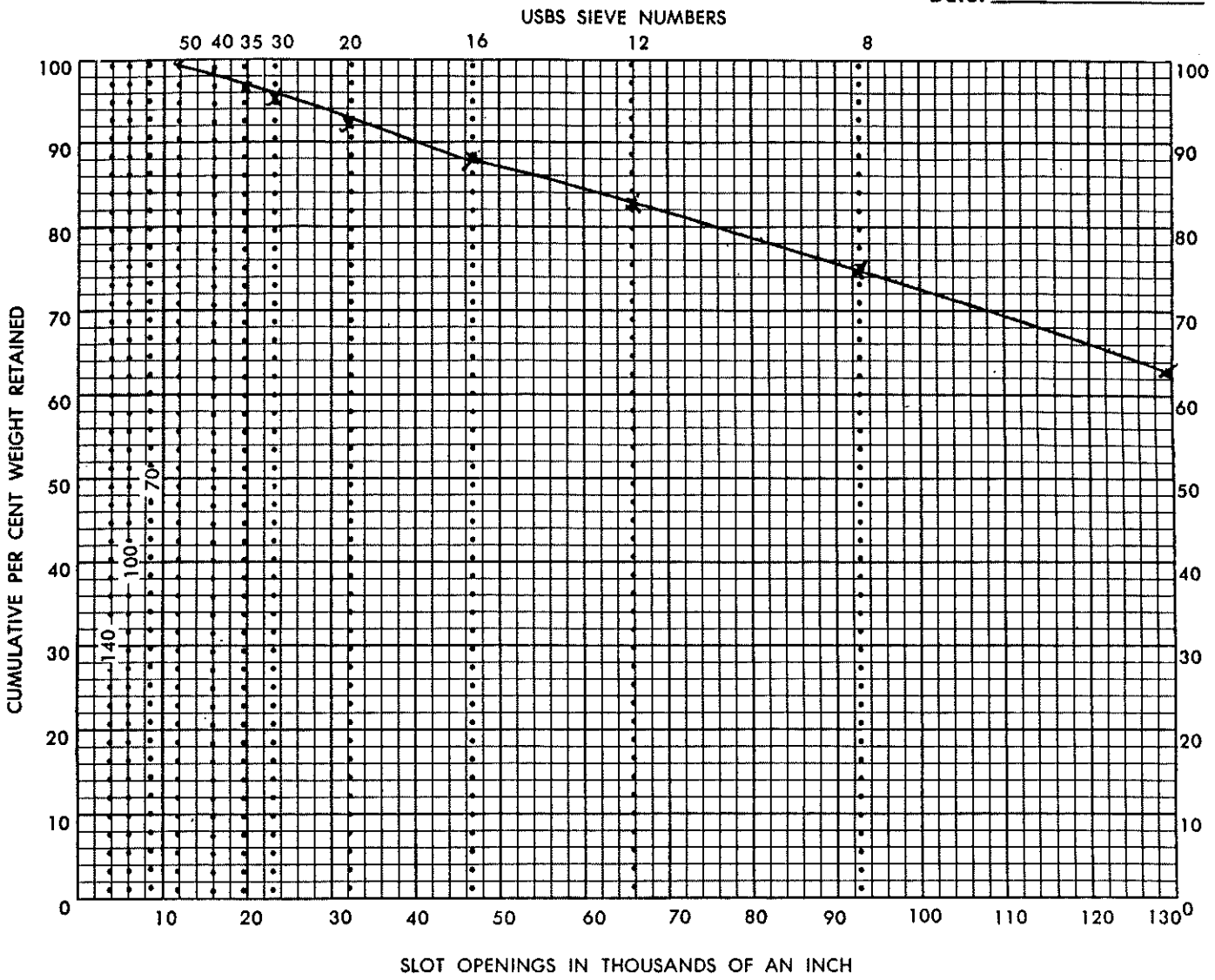
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 55 to _____

Well Designation: DuPont TWR

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: .004

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	452	63
8	.0937	2.36	533	75
12	.0661	1.70	590	83
16	.0469	1.18	630	88
20	.0331	0.85	654	92
30	.0234	0.60	674	95
35	.0197	0.50	680	96
40	.0165	.425	687	97
50	.0117	.300	695	
70	.0083	.212	700	
100	.0059	.150	702	
140	.0041	.106	706	
	PAN		710	

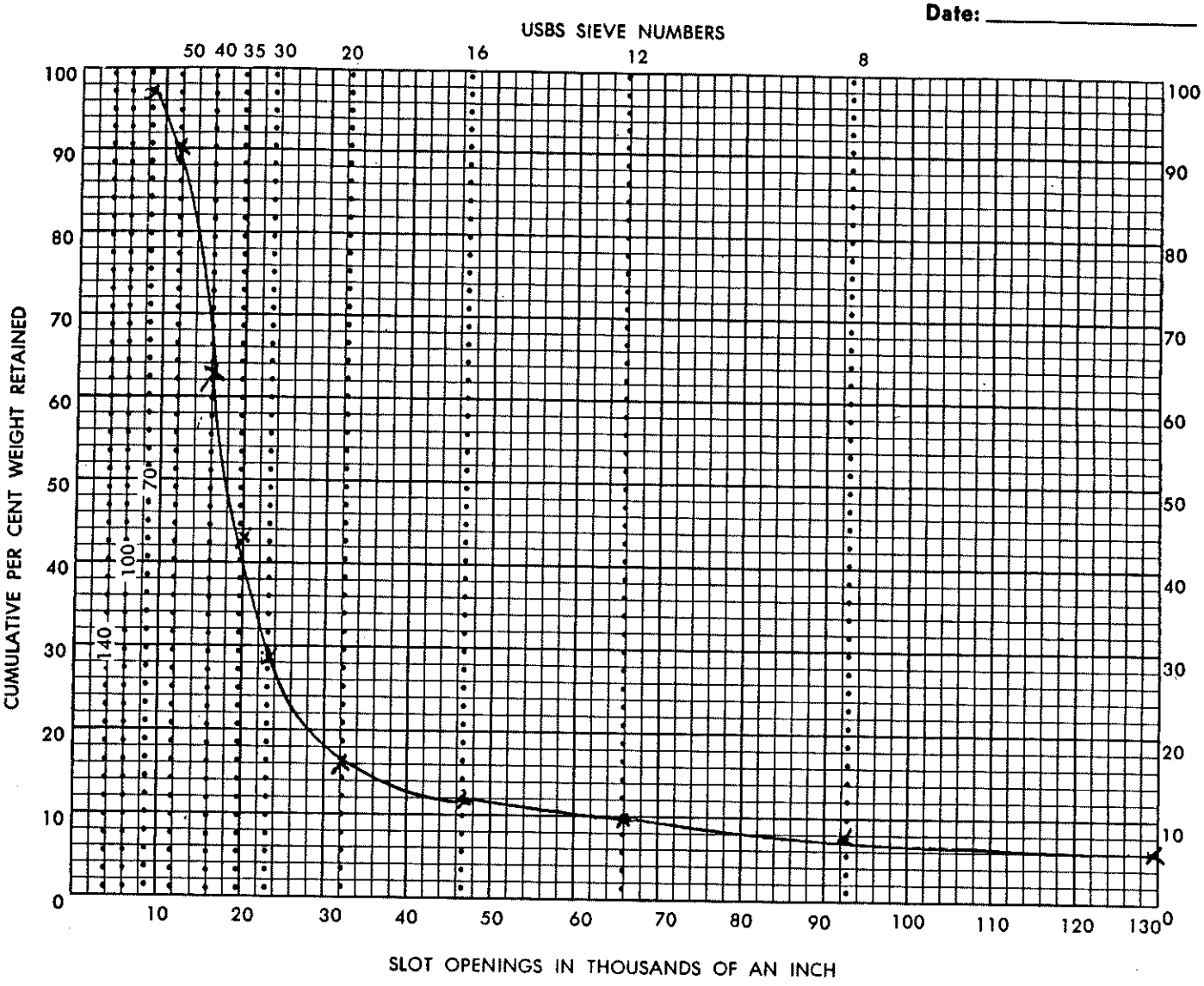
WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212
Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: _____



Depth of Sample: from 60 to 62.1

Well Designation: DuPont TW B

Sample received from: _____

_____

Owner of well: _____

Engineer: _____

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: _____

_____

_____

Slot Size Recommended: .020"

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	34	6
8	.0937	2.36	46	8
12	.0661	1.70	58	10
16	.0469	1.18	71	12
20	.0331	0.85	91	16
30	.0234	0.60	166	29
35	.0197	0.50	245	43
40	.0165	.425	365	63
50	.0117	.300	520	90
70	.0083	.212	558	97
100	.0059	.150	565	98
140	.0041	.106	569	99
	PAN		574	100

WELL STRAINER CORP.

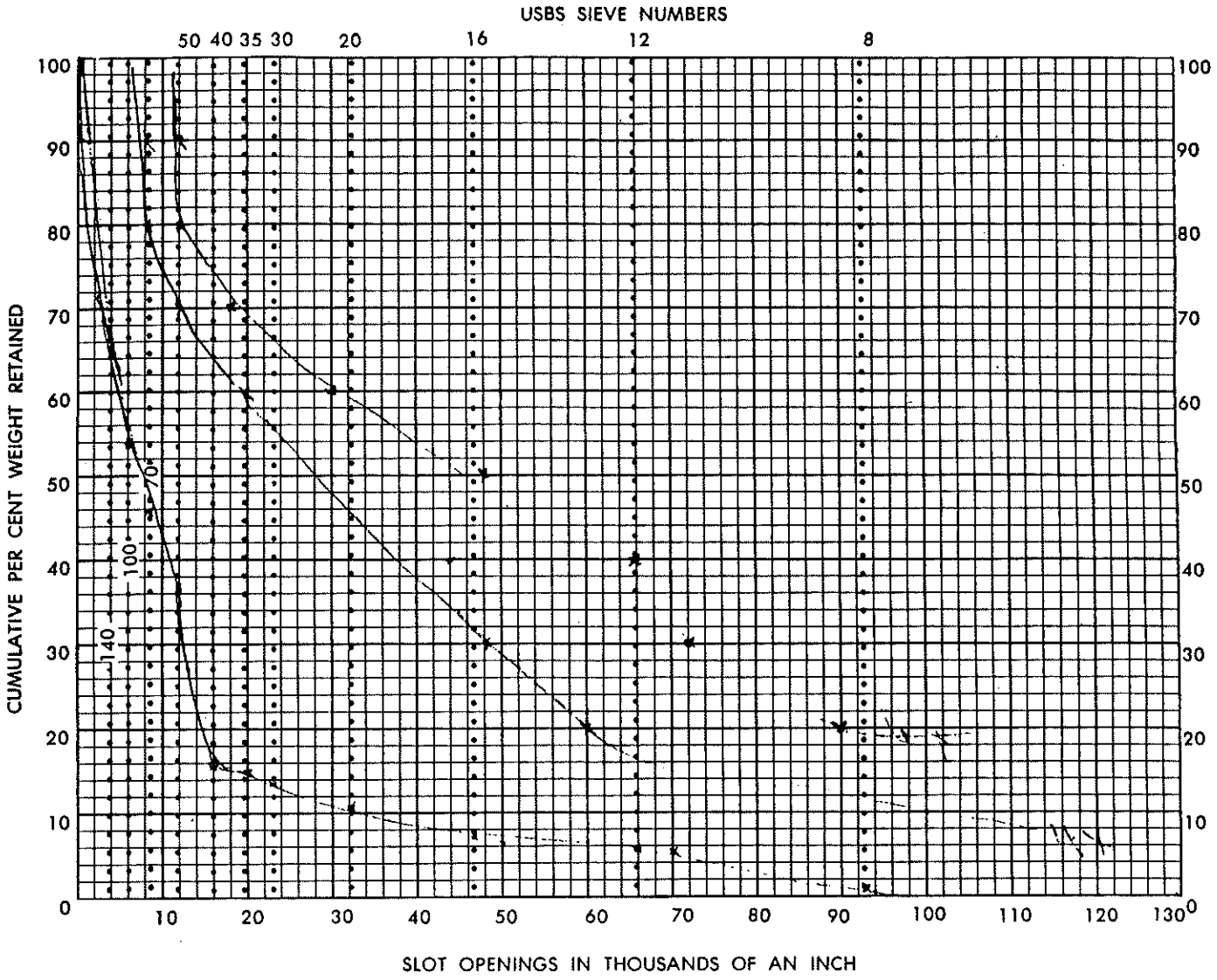
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-16-87



Depth of Sample: from 0 to 5

Well Designation: _____

Sample received from: [illegible]

Owner of well: #446

Engineer: Burgess & Niple

Well: Diam. _____ **in.** **Static Level** _____ **ft.**

Remarks: U.C. = 5.5 : 1

30% = .012 40% = .011 50% = .008 60% = .005

70% = .003 80% = .002 90% = .002

Slot Size Recommended: .010 slot

Analysis by: [illegible]

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	1	0.4 %
8	.0937	2.36	3	1.1
12	.0661	1.70	10	3.6
16	.0469	1.18	20	7.2
20	.0331	0.85	30	10.8
30	.0234	0.60	38	13.7
35	.0197	0.50	41	14.7
40	.0165	.425	44	15.8
50	.0117	.300	51	36.7
70	.0083	.212	61	43.9
100	.0059	.150	75	54.0
140	.0041	.106	91	65.5
	PAN		139	100

WELL STRAINER CORP.

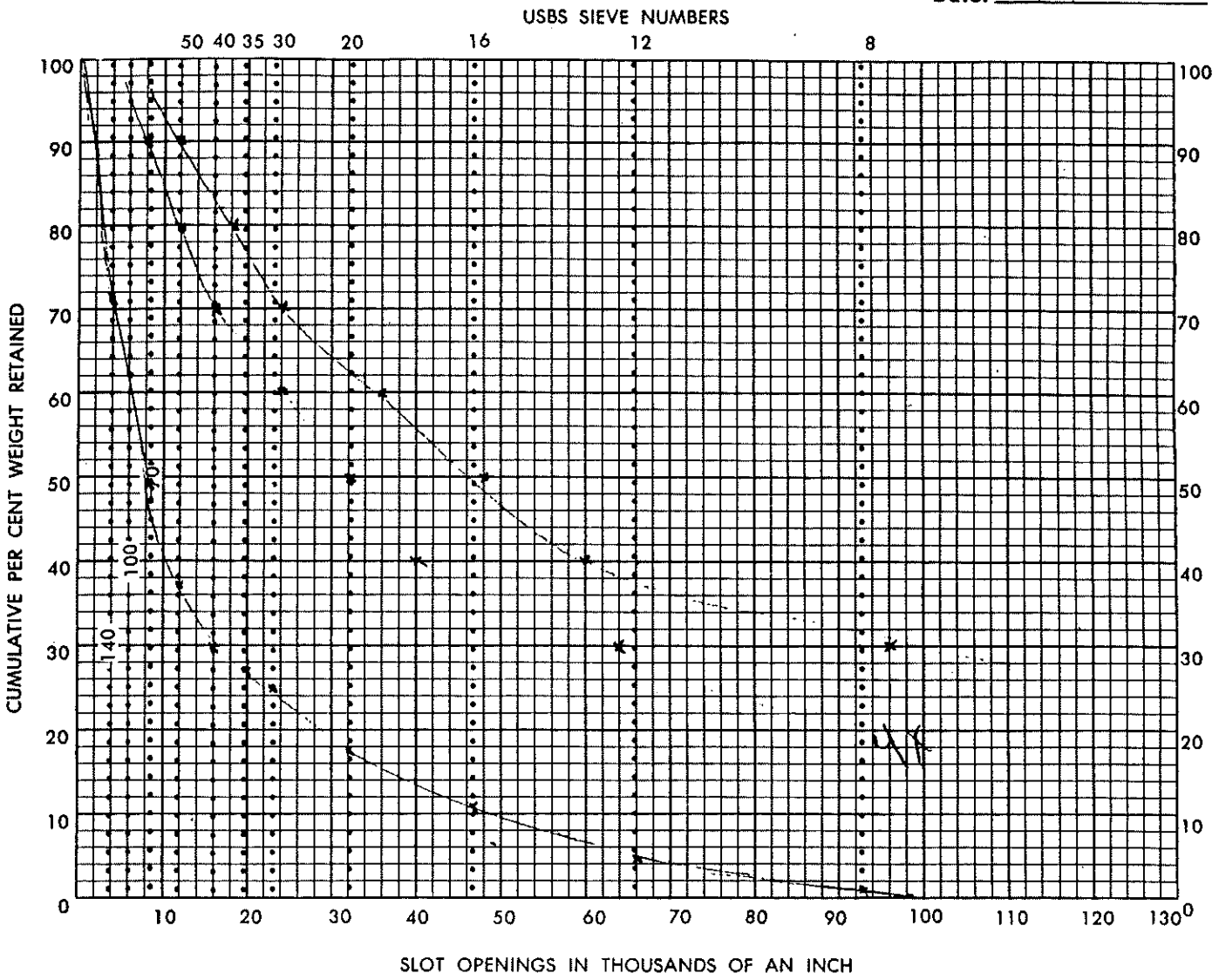
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-16-87



Depth of Sample: from 5 to 10

Well Designation: _____

Sample received from: _____

Owner of well: # 446 - Dugent

Engineer: B & N

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: U.C. = 5:1

30% = .016 40% = .010 50% = .008 60% = .006

70% .004 80% = .003 90% = .002

Slot Size Recommended: .010

Analysis by: CJ

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	0	–
8	.0937	2.36	2	1.1 %
12	.0661	1.70	8	4.6
16	.0469	1.18	19	10.9
20	.0331	0.85	31	17.8
30	.0234	0.60	43	24.7
35	.0197	0.50	47	27.0
40	.0165	.425	52	29.9
50	.0117	.300	65	37.4
70	.0083	.212	86	49.4
100	.0059	.150	108	62.1
140	.0041	.106	125	71.8
	PAN		174	100

WELL STRAINER CORP.

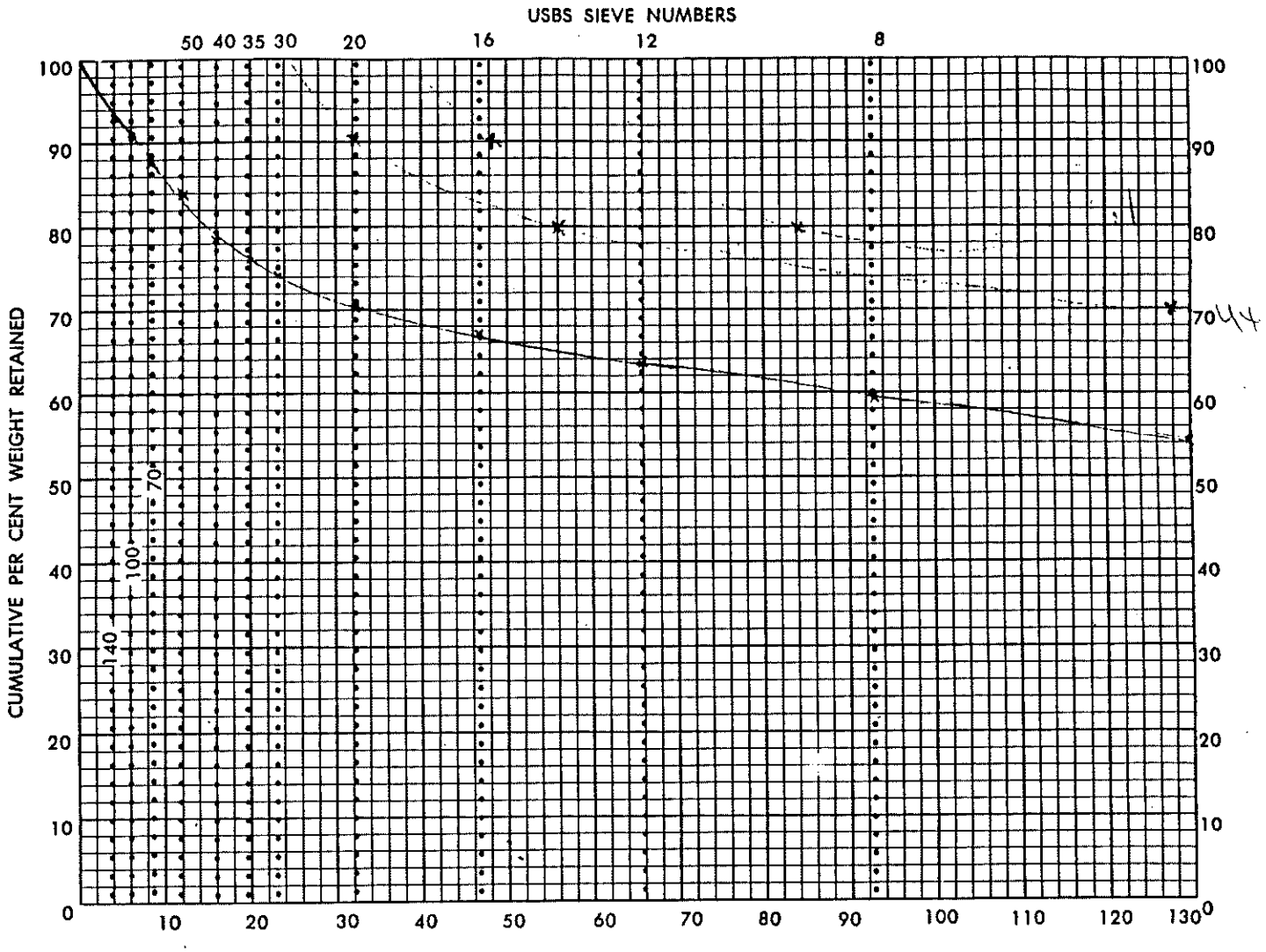
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-16-87



Depth of Sample: from 10 to 15

Well Designation: _____

Sample received from: Penn Drilling

Owner of well: #446

Engineer: B + N

Well: Diam. _____ in. Static Level _____ ft.

Remarks: U.C.: >10:1

30%-.150 40%-.150 50%-.150 60%-.092

70%-.032 80%-.014 90%-.008

Slot Size Recommended: .150

Analysis by: Chm

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	167	54.4 %
8	.0937	2.36	183	59.6
12	.0661	1.70	196	63.8
16	.0469	1.18	206	67.1
20	.0331	0.85	216	70.4
30	.0234	0.60	228	74.3
35	.0197	0.50	235	76.5
40	.0165	.425	242	78.8
50	.0117	.300	258	84.0
70	.0083	.212	270	87.9
100	.0059	.150	280	91.2
140	.0041	.106	287	93.5
	PAN		307	100

WELL STRAINER CORP.

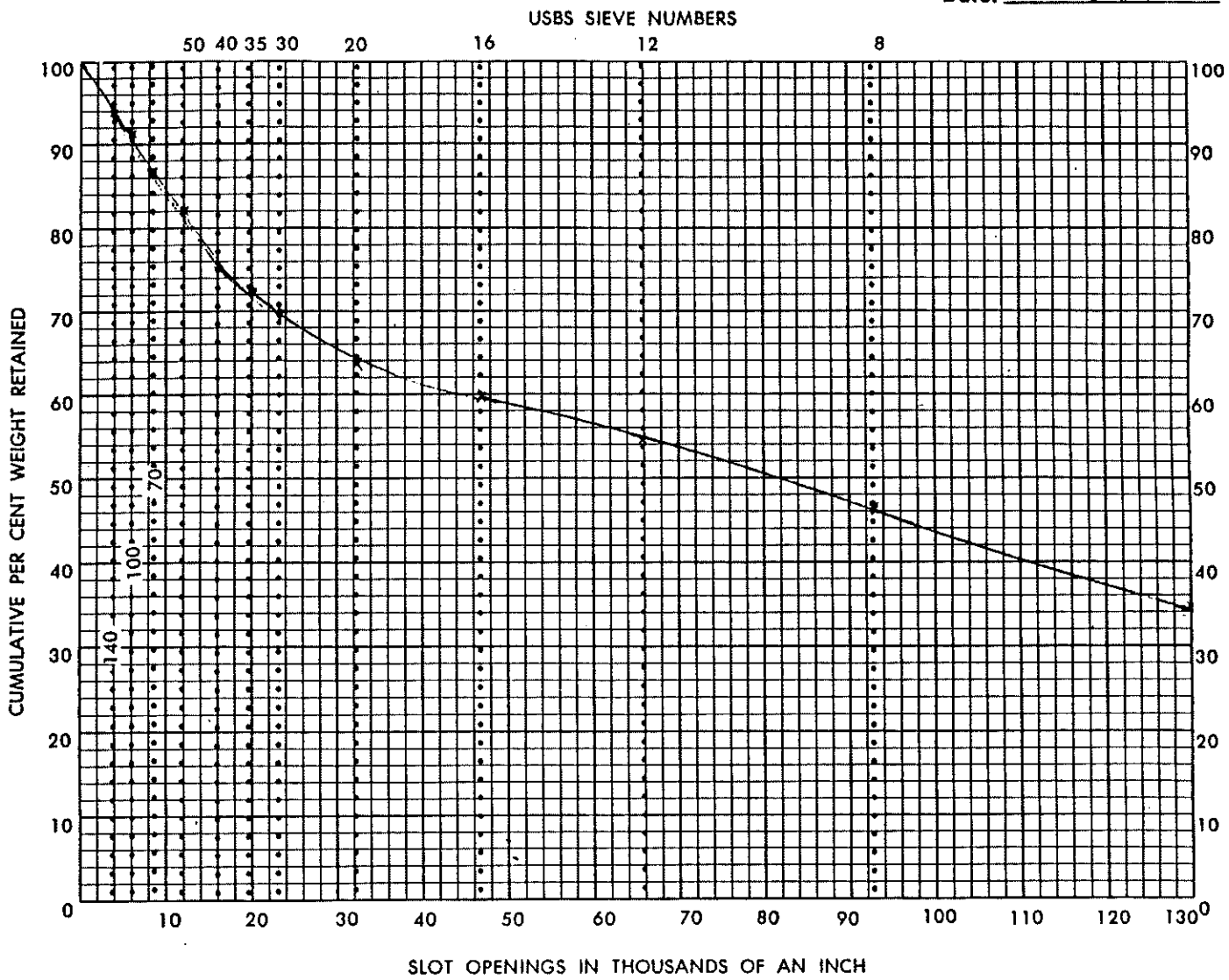
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-16-87



Depth of Sample: from 15 to 20

Well Designation: _____

Sample received from: Pen[illegible]

Owner of well: # 446

Engineer: [illegible]

Well: Diam. _____ **in.** **Static Level** _____ **ft.**

Remarks: UC = 18.3.1

30% = .118 40% = .110 50% = .082 60% = .044

70% = .023 80% = .013 90% = .006

Slot Size Recommended: .0[illegible]

Analysis by: [illegible]

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	28	34.4 %
8	.0937	2.36	105	46.3
12	.0661	1.70	124	54.6
16	.0469	1.18	136	59.9
20	.0331	0.85	145	63.9
30	.0234	0.60	157	69.2
35	.0197	0.50	164	72.2
40	.0165	.425	171	75.3
50	.0117	.300	187	82.4
70	.0083	.212	199	87.7
100	.0059	.150	207	91.2
140	.0041	.106	213	93.8
	PAN		227	100

FORM 800

WELL STRAINER CORP.

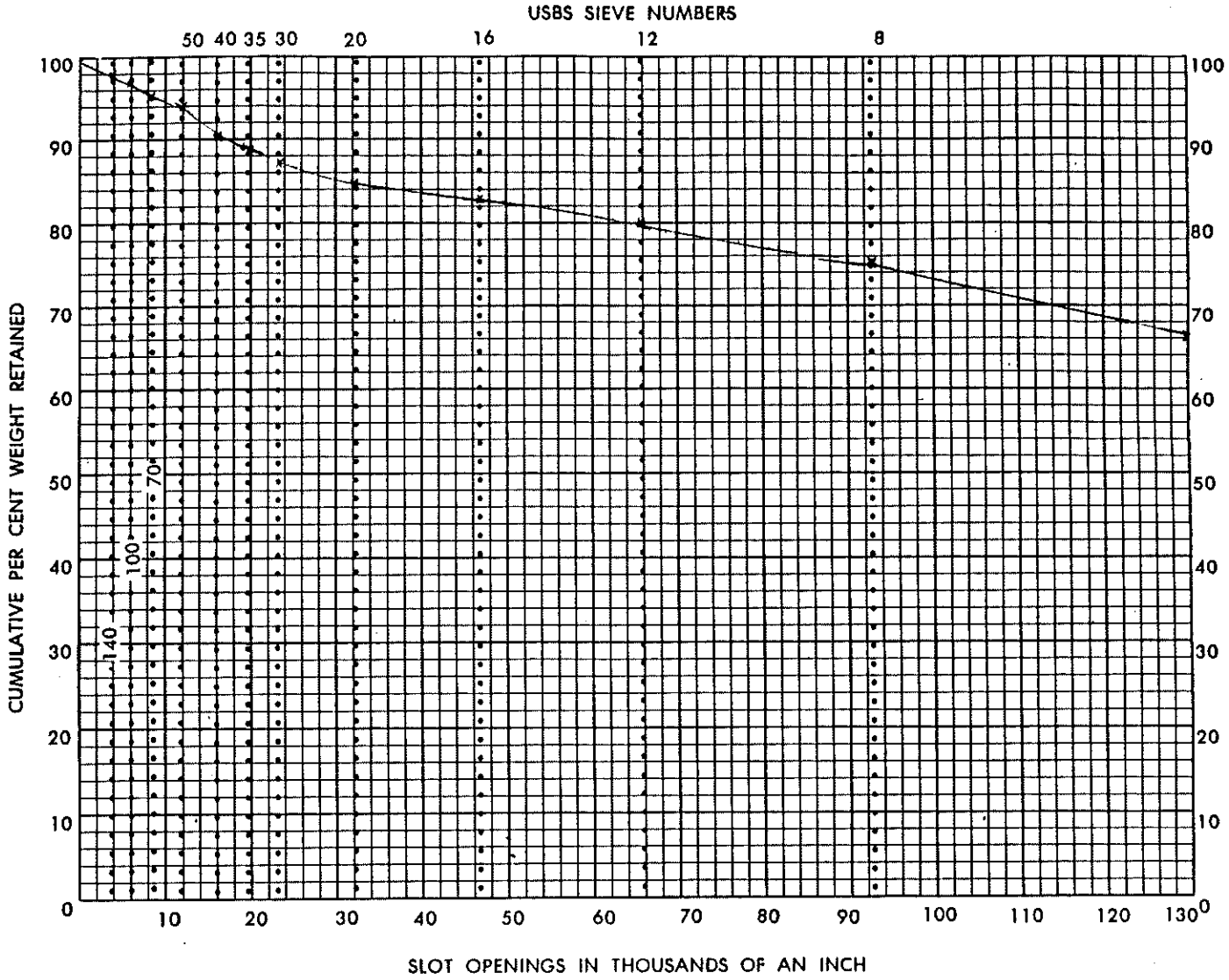
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-16-87



Depth of Sample: from 20 to 25

Well Designation: _____

Sample received from: PENN DRILLING

Owner of well: #446

Engineer: B+N

Well: Diam. _____ in. Static Level _____ ft.

Remarks: UC = > 10:1

60% = about 150 70% = .114 80% = .066

90% = .016

Slot Size Recommended: —

Analysis by: Chen

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	263	66.1 %
8	.0937	2.36	301	75.6
12	.0661	1.70	319	80.1
16	.0469	1.18	329	82.7
20	.0331	0.85	337	84.7
30	.0234	0.60	348	87.4
35	.0197	0.50	353	88.7
40	.0165	.425	360	90.5
50	.0117	.300	374	94.0
70	.0083	.212	381	95.7
100	.0059	.150	386	97.0
140	.0041	.106	390	98.0
	PAN		398	100

FORM 800

WELL STRAINER CORP.

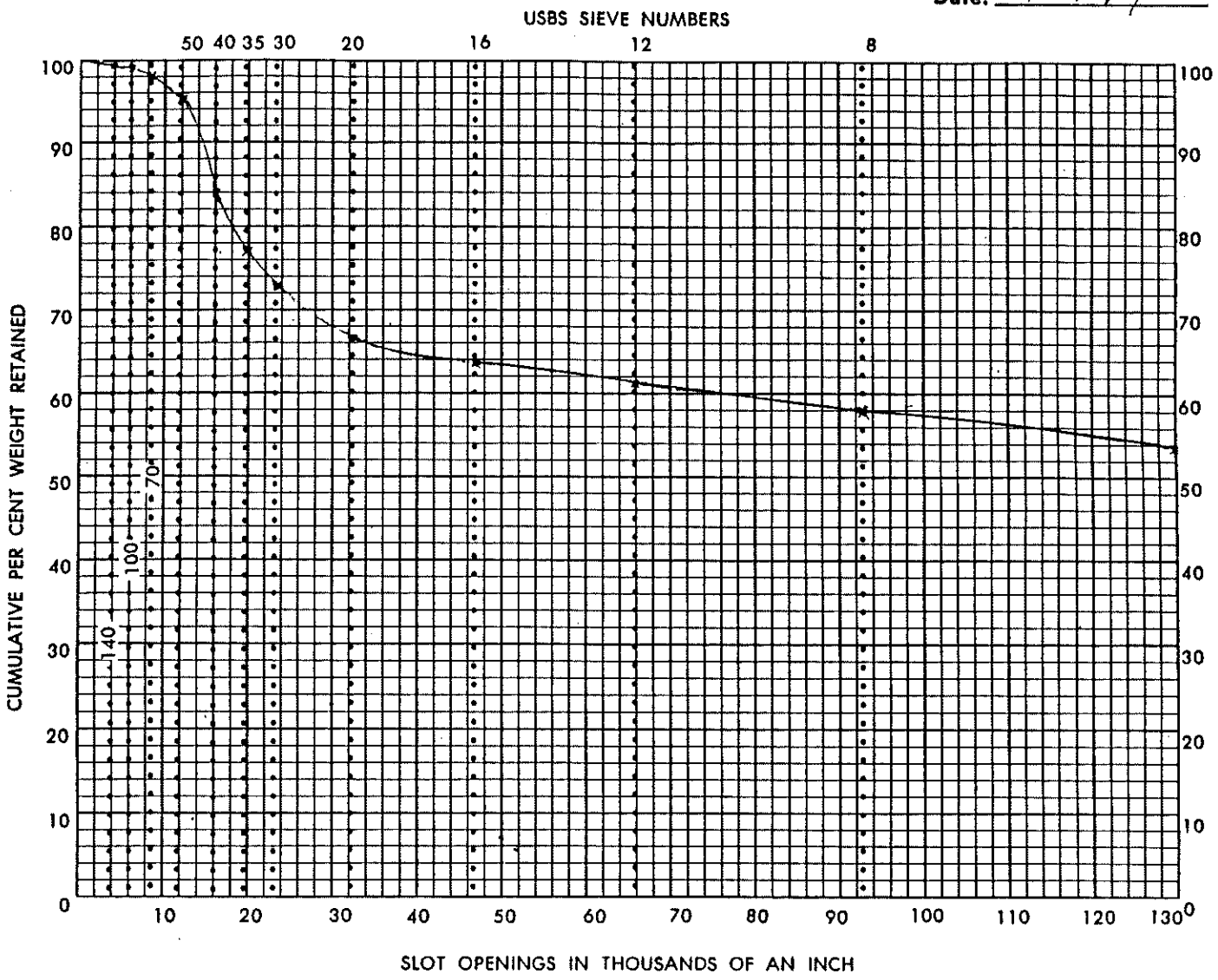
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-21-87



Depth of Sample: from 25 to 30

Well Designation: _____

Sample received from: PENN DRILLING

Owner of well: #446 Dupont

Engineer: BAN

Well: Diam. _____ **in.** **Static Level** _____ **ft.**

Remarks: U.C. > 10:1

50% .150 60% = .076 70% .027

80% = .018 90% = .014

Slot Size Recommended: —

Analysis by: [illegible]

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	162	53.8%
8	.0937	2.36	175	58.1
12	.0661	1.70	184	61.1
16	.0469	1.18	192	63.8
20	.0331	0.85	200	66.4
30	.0234	0.60	219	72.8
35	.0197	0.50	233	77.4
40	.0165	.425	253	84.1
50	.0117	.300	288	95.7
70	.0083	.212	296	98.3
100	.0059	.150	299	99.3
140	.0041	.106	300	99.7
	PAN		301	100

FORM 800

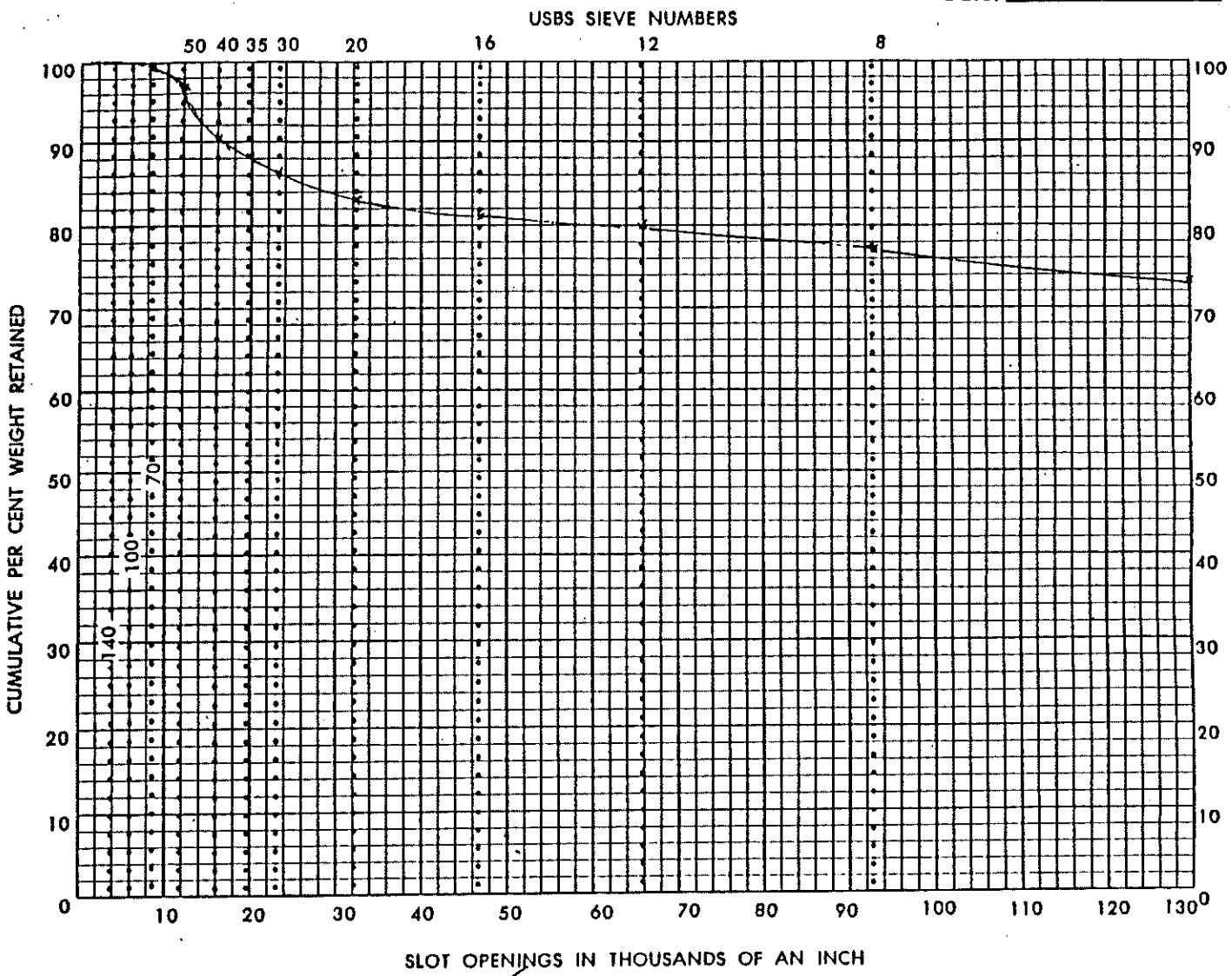
WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212
Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-17



Depth of Sample: from 30 to 35

Well Designation: _____

Sample received from: PENN DRILLING

Owner of well: #446

Engineer: BRW

Well: Diam. _____ in. Static Level _____ ft.

Remarks: L.C. 210:1

70% = .150 50% = .060 40% = .016

Slot Size Recommended: —

Analysis by: CD

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	261	73.5%
8	.0937	2.36	275	77.5
12	.0661	1.70	285	80.3
16	.0469	1.18	289	81.4
20	.0331	0.85	295	83.1
30	.0234	0.60	306	86.2
35	.0197	0.50	313	88.2
40	.0165	.425	322	90.7
50	.0117	.300	346	97.5
70	.0083	.212	354	99.7
100	.0059	.150	355	100
140	.0041	.106	355	100
	PAN		355	100

WELL STRAINER CORP.

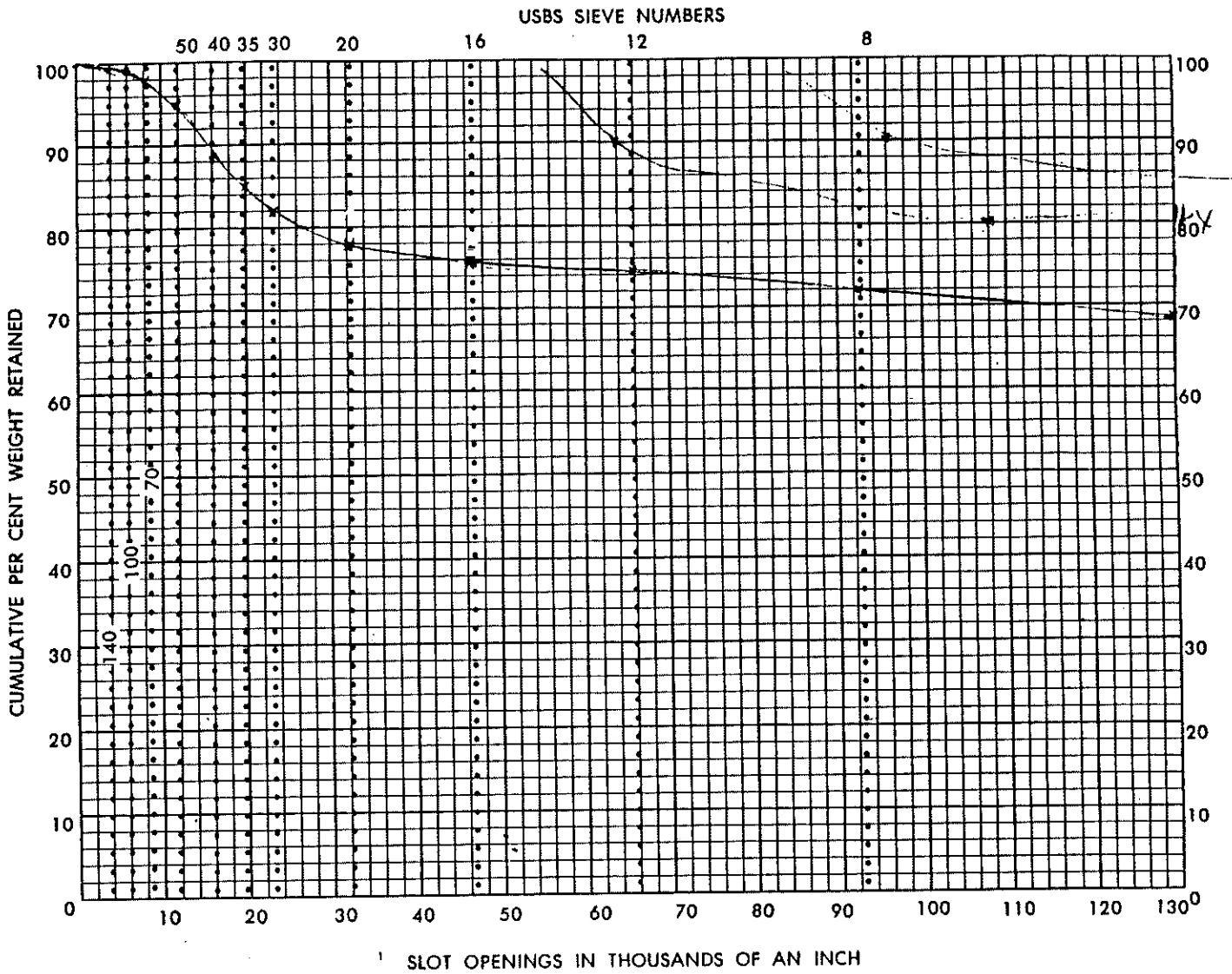
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-16-87



Depth of Sample: from 35 to 40

Well Designation: _____

Sample received from: penn drilling #4446

Owner of well: _____

Engineer: L & N

Well: Diam. _____ in. **Static Level** _____ ft.

Remarks: UC ? > 10:1

30% - ? 40% = ? 50% = ? 60% - .180 ?

70% = .112 80% = .027 90% - .016

Slot Size Recommended: ?

Analysis by: (C)

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	202	68.5%
8	.0937	2.36	213	72.2
12	.0661	1.70	220	74.6
16	.0469	1.18	225	76.3
20	.0331	0.85	230	78.0
30	.0234	0.60	243	82.4
35	.0197	0.50	251	85.1
40	.0165	.425	261	88.5
50	.0117	.300	281	95.3
70	.0083	.212	290	98.3
100	.0059	.150	292	99.0
140	.0041	.106	293	99.3
	PAN		295	100

WELL STRAINER CORP.

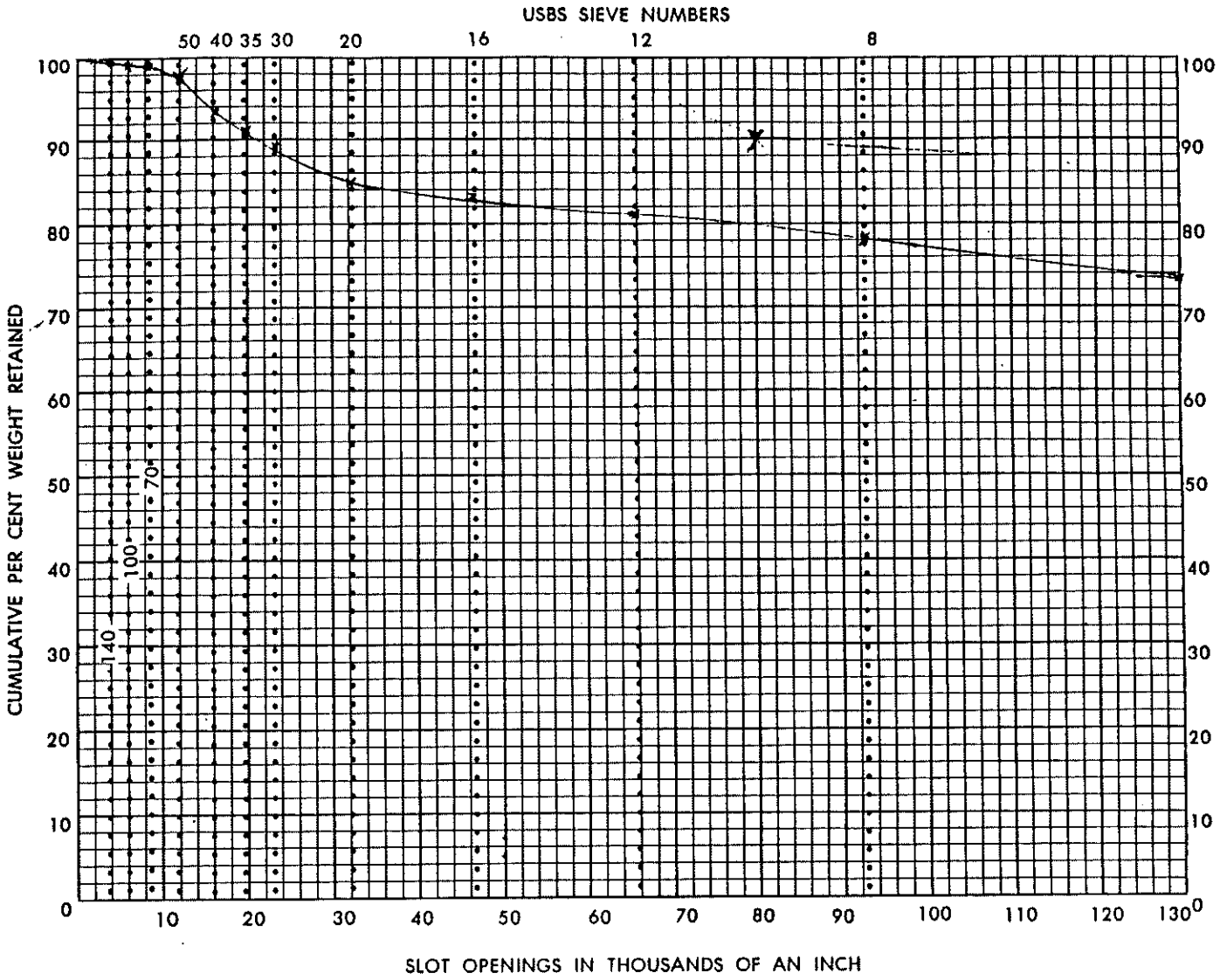
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-17



Depth of Sample: from 40 to 45

Well Designation: _____

Sample received from: PEAN drilling

Owner of well: Hull Dupont

Engineer: BAN

Well: Diam. _____ in. Static Level _____ ft.

Remarks: U.C. = 10?1

70% = 156? 80% = .693 90% = .021

Slot Size Recommended: .115

Analysis by: _____

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	209	73.6%
8	.0937	2.36	222	78.2
12	.0661	1.70	230	81.0
16	.0469	1.18	236	83.1
20	.0331	0.85	242	85.2
30	.0234	0.60	253	89.1
35	.0197	0.50	259	91.2
40	.0165	.425	266	93.7
50	.0117	.300	278	97.9
70	.0083	.212	281	98.9
100	.0059	.150	282	99.3
140	.0041	.106	283	99.6
	PAN		284	100

#10 sieve = .116

WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

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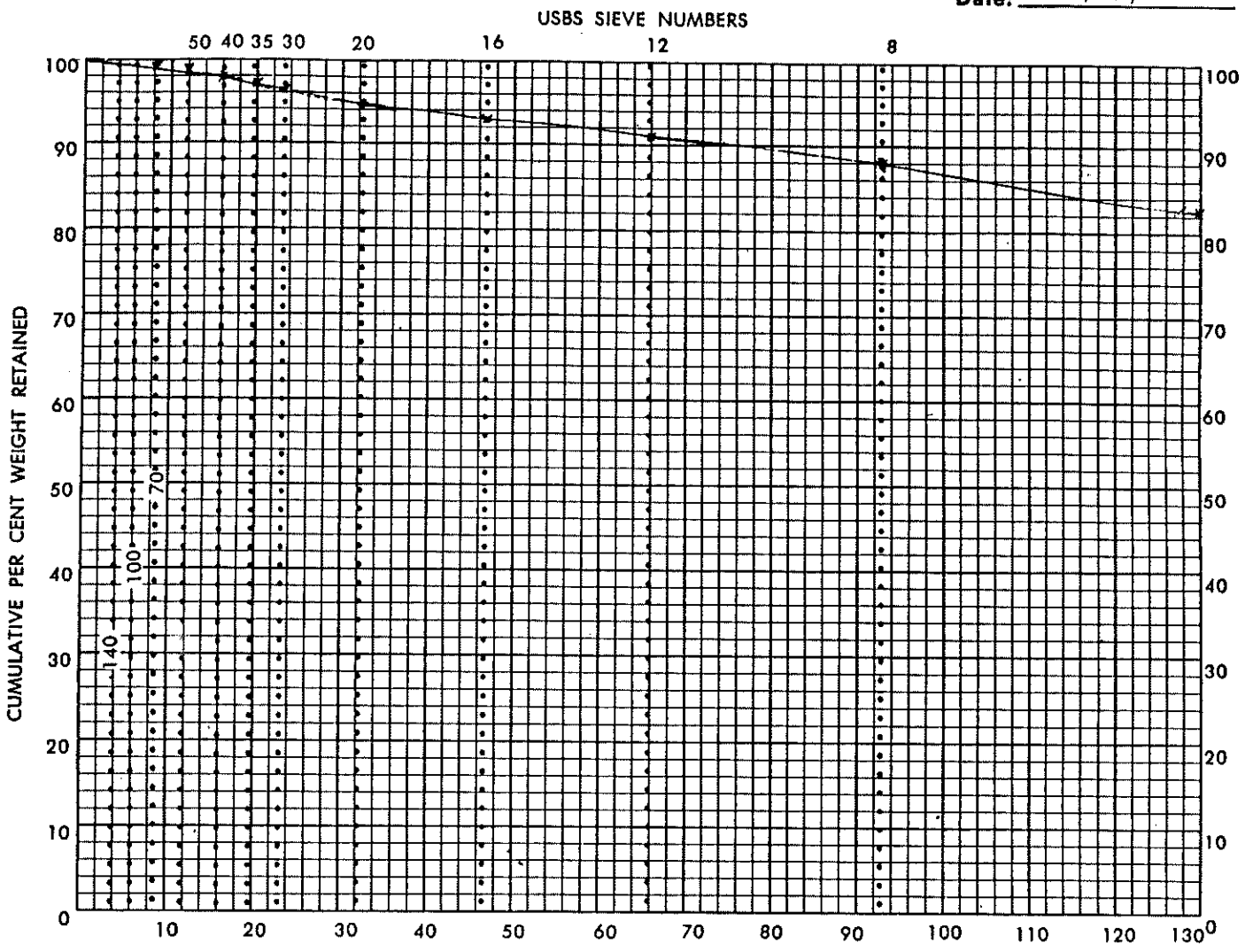
SAND SAMPLE ANALYSIS

No. _____

Date: 9-17



Depth of Sample: from 45 to 50

Well Designation: _____

Sample received from: Penn drilling

#446

Owner of well: _____

Engineer: B + N

Well: Diam. _____ in. Static Level _____ ft.

Remarks: U.C. 2.0:1

Slot = about .100 90% = .074

Slot Size Recommended: .115 of #10 Parry Direct

Analysis by: _____

#10 = .116

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	282	82.7 %
8	.0937	2.36	301	88.3
12	.0661	1.70	311	91.2
16	.0469	1.18	318	93.3
20	.0331	0.85	323	94.7
30	.0234	0.60	329	96.5
35	.0197	0.50	332	97.4
40	.0165	.425	335	98.2
50	.0117	.300	339	99.4
70	.0083	.212	340	99.7
100	.0059	.150	341	100
140	.0041	.106	341	100
	PAN		341	100

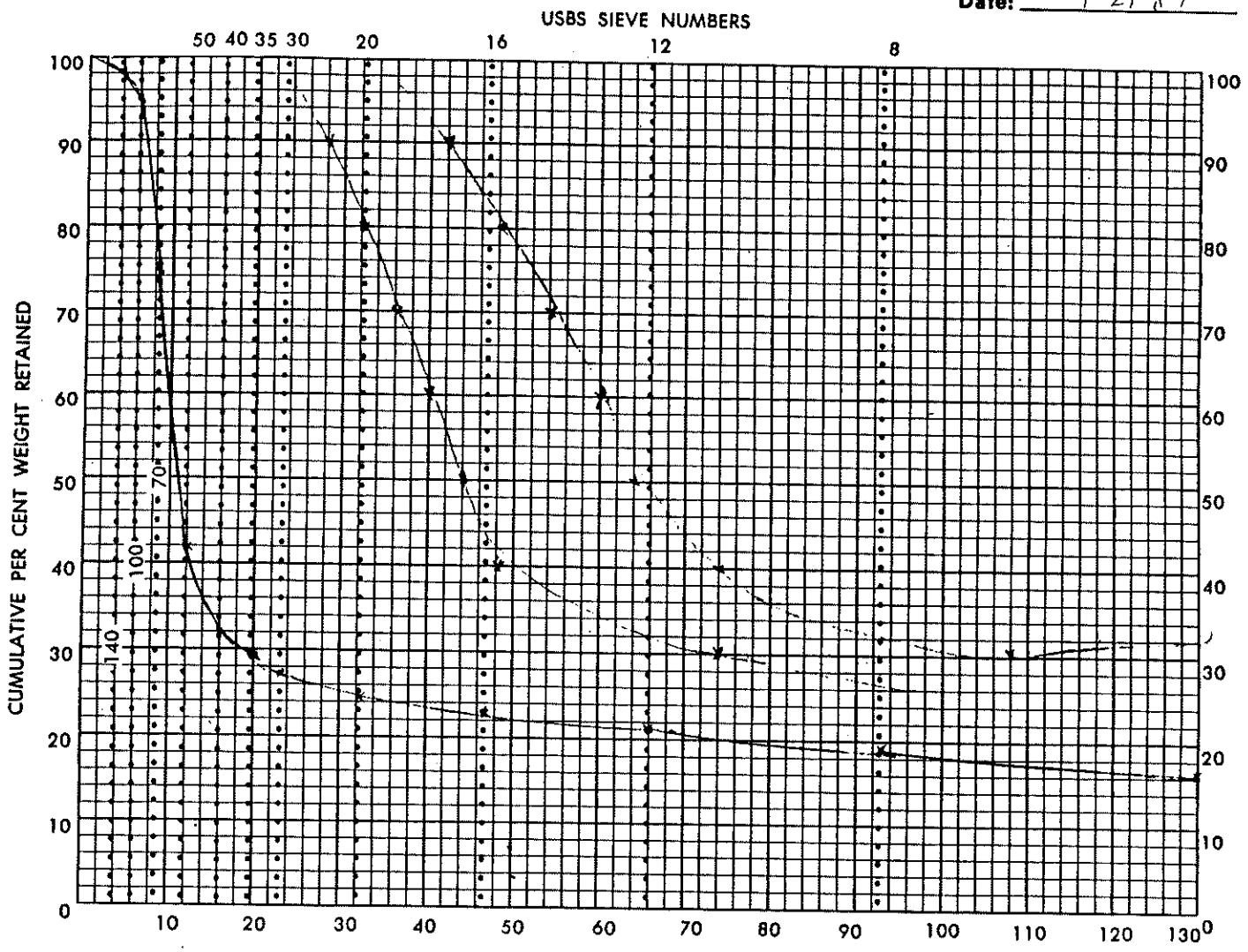
WELL STRAINER CORP.

4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212
Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-21-87



Depth of Sample: from 50' to 52'

Well Designation: _____

Sample received from: Penn drilling

Owner of well: #446 - DUPONT

Engineer: B.J. N

Well: Diam. _____ in. Static Level _____ ft.

Remarks: L.C. = 1.7 : 1 [illegible]
40% = .012 [illegible] [illegible] [illegible] = .0[illegible]
70% = [illegible] 80% = .008 90% = .007

Slot Size Recommended: .00001 - tight

Analysis by: Chu

tight wrap 49-53'
[illegible] #10 gravel

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	56	16.5 %
8	.0937	2.36	65	19.1
12	.0661	1.70	73	21.5
16	.0469	1.18	78	22.9
20	.0331	0.85	84	24.7
30	.0234	0.60	93	27.4
35	.0197	0.50	100	29.4
40	.0165	.425	108	31.8
50	.0117	.300	142	41.8
70	.0083	.212	255	75.0
100	.0059	.150	324	95.3
140	.0041	.106	335	98.5
	PAN		340	100

FORM 800

G-43

WELL STRAINER CORP.

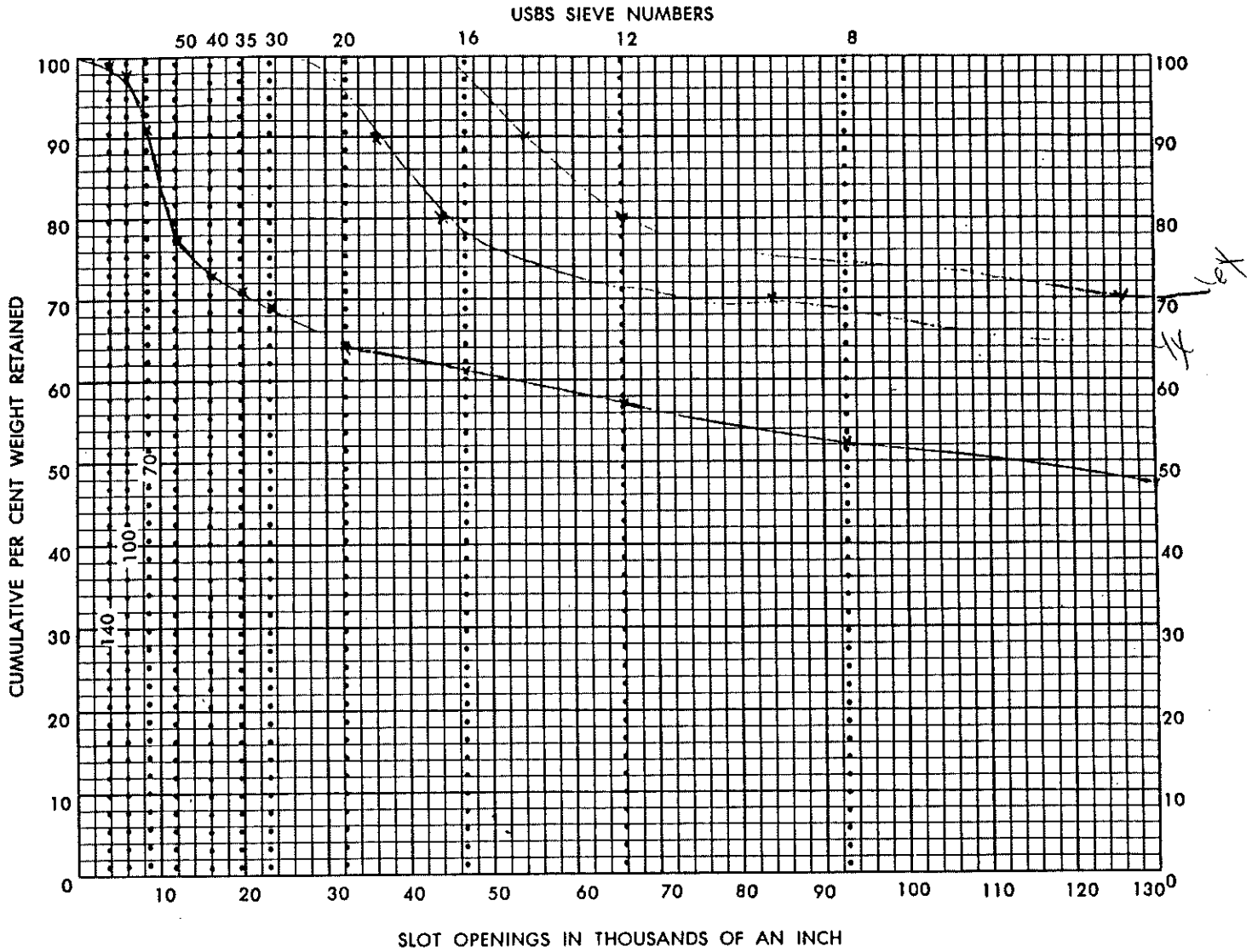
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-17



Depth of Sample: from 52 to 55

Well Designation: _____

Sample received from: Penn drilling

Owner of well: #446 Dupont

Engineer: Burgess & Niple

Well: Diam. _____ in. Static Level _____ ft.

Remarks: [illegible] 16.7:1

40% .150 50% .124 60% .052

70% .021 80% .011 90% .009

Slot Size Recommended: .110 w/ #10 Pany Shaker

Analysis by: [illegible]

#10 pan .116" slot

U.S. SIEVE	SIEVE OPENING		CUMULATIVE	
NO.	INCHES	MM.	WEIGHT	%
6	.1320	3.35	158	47.2 %
8	.0937	2.36	176	52.5
12	.0661	1.70	192	57.3
16	.0469	1.18	204	60.9
20	.0331	0.85	215	64.0
30	.0234	0.60	231	69.0
35	.0197	0.50	238	71.0
40	.0165	.425	245	73.1
50	.0117	.300	260	77.6
70	.0083	.212	305	91.0
100	.0059	.150	329	98.2
140	.0041	.106	333	99.4
	PAN		335	100

FORM 800

WELL STRAINER CORP.

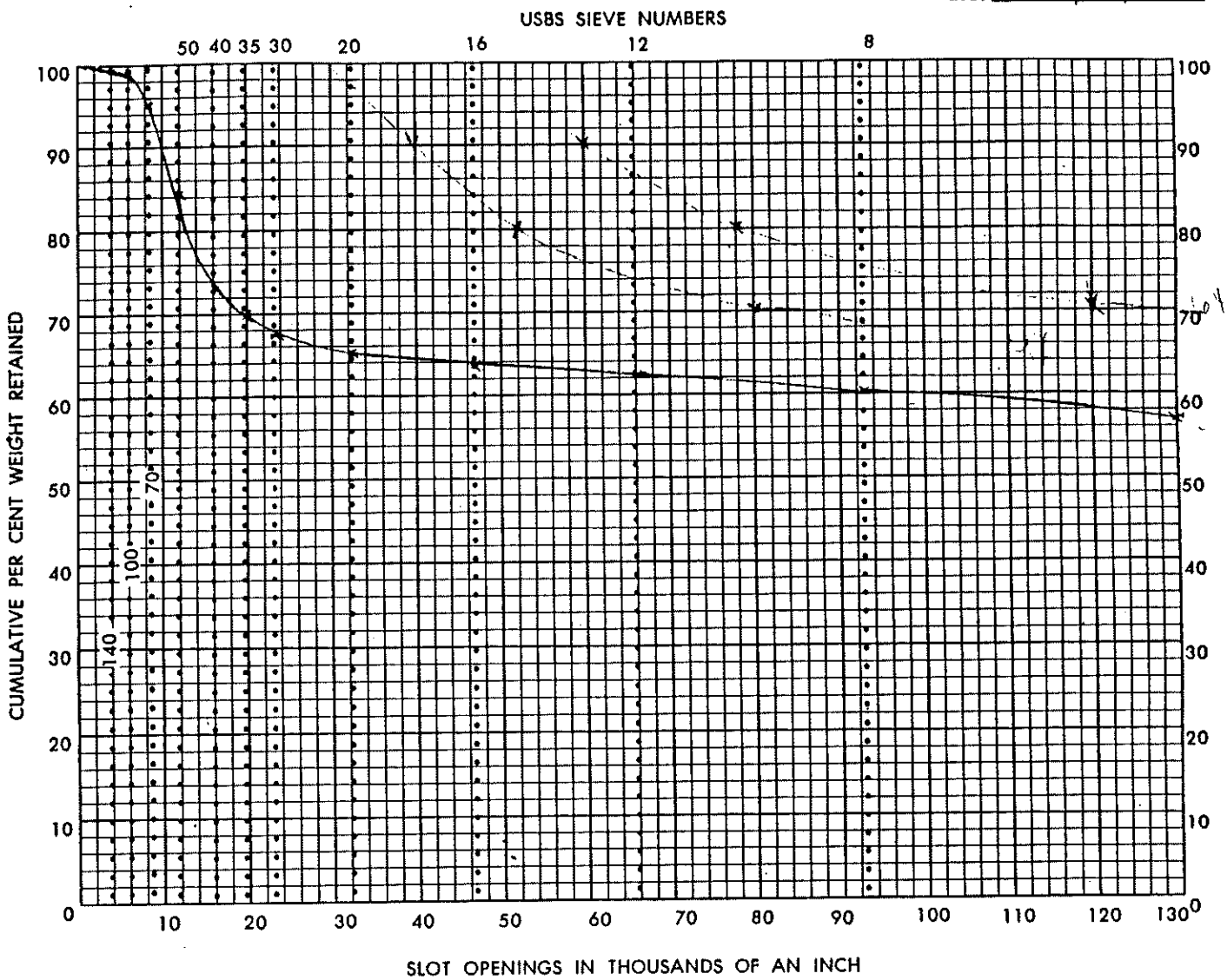
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-17



Depth of Sample: from 55 to 58

Well Designation: _____

Sample received from: penn drilling

Owner of well: #446

Engineer: BFN

Well: Diam. _____ in. Static Level _____ ft.

Remarks:

50% about 110 60% .093 70% = .020

80% = .013 90% = .010

Slot Size Recommended: .115 w/ Pauny Trend #10

Analysis by: Ch

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	296	57.1 %
8	.0937	2.36	313	60.4
12	.0661	1.70	323	62.4
16	.0469	1.18	330	63.7
20	.0331	0.85	338	65.3
30	.0234	0.60	350	67.6
35	.0197	0.50	362	69.9
40	.0165	.425	380	73.4
50	.0117	.300	438	84.6
70	.0083	.212	492	95.0
100	.0059	.150	512	98.8
140	.0041	.106	515	99.4
	PAN		518	100

FORM 800

WELL STRAINER CORP.

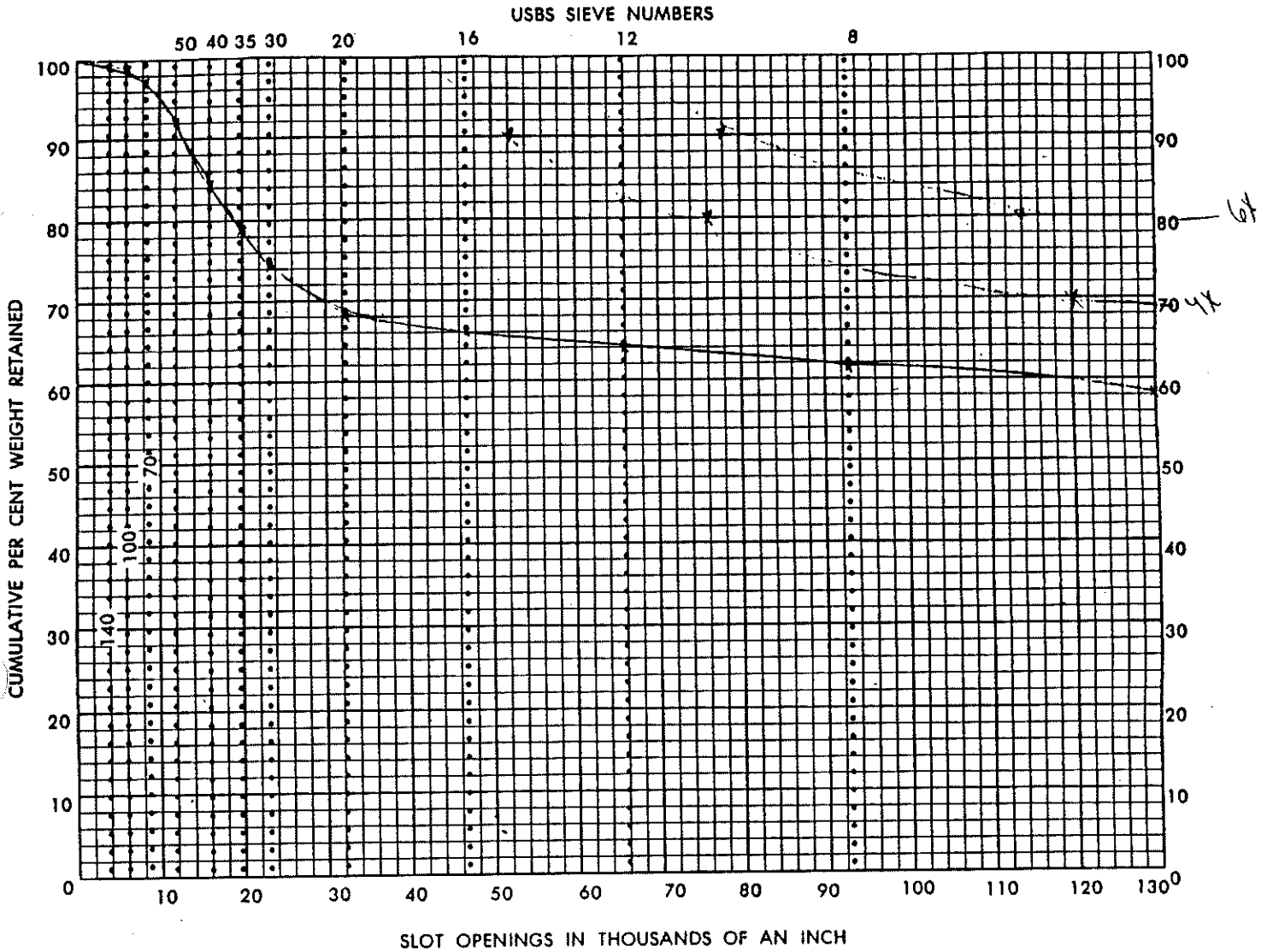
4848 FRANKLIN AVENUE, CINCINNATI, OHIO 45212

Telephone (513) 531-6555 TWX 810-461-2002 A/B Cookwell Nrwd

SAND SAMPLE ANALYSIS

No. _____

Date: 9-17



Depth of Sample: from 58 to 60

Well Designation: _____

Sample received from: penn drilling

Owner of well: #446 Depot

Engineer: BH-N

Well: Diam. _____ in. Static Level _____ ft.

Remarks: _____

50% about .110 60% = .112 70% = .030

80% = .019 90% = .013

Slot Size Recommended: .115 w/ Penny #10 gravel

Analysis by: CL

U.S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM.	CUMULATIVE WEIGHT	CUMULATIVE %
6	.1320	3.35	233	58.5%
8	.0937	2.36	246	61.8
12	.0661	1.70	255	64.1
16	.0469	1.18	263	66.1
20	.0331	0.85	273	68.6
30	.0234	0.60	297	74.6
35	.0197	0.50	315	79.1
40	.0165	.425	337	84.7
50	.0117	.300	367	92.2
70	.0083	.212	388	97.5
100	.0059	.150	395	99.2
140	.0041	.106	396	99.5
	PAN		398	100

APPENDIX H

WATER QUALITY DATA

5060 1/84

...ECTI... SYSTEM ANALYSIS

WATER MANAGEMENT DIVISION

CALGON

P.O. Box 1346 — Pittsburgh, PA 15230

H-1

ANALYSIS	Well Number 436	436	436													
10350 pH	7.3	7.0	7.3													
10010 A. Rdg.	-	-	-													
10011 M.O. Rdg.	5.7	5.7	5.7													
P Rdg.	-	-	-													
M Rdg.	95.2	93.5	95.2													
10200 Conductivity	500	500	500													
10530 Suspended Solids	<5	<5	<5													
10540 Total Solids	320	320	310													
10460 SiO_2	12	12	12													
10150 Cl	38	37	34													
10580 SO_4	85	80	80													
10320 NO_3	<0.5	<0.5	<0.5													
10850 Ortho PO_4	<0.05	<0.05	<0.05													
10851 Poly PO_4	<0.1	<0.1	<0.1													
TD D1 Metals																
1090 Ca	50	50	50													
1091 Mg	11	10	11													
1092 Na	21	25	22													
1093 K	2.5	2.5	2.5													
1094 Fe	0.1	0.2	0.2													
1095 Cu	<0.05	<0.05	<0.05													
1096 Mn	1.10	1.00	0.95													
1097 Al	<0.1	<0.1	<0.1													
1098 Zn	<0.05	0.20	0.25													
1026 Hardness	170	166	170													
10130 TOC	1	2	2													
10480 Colloidal SiO_2	0.25	0.06	0.06													

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E.I. DuPONT deNEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W. VA.
COPIES: ---

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W. VA.

SAMPLE NUMBER: 144634
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 436
DATE SAMPLED: 11/13/86 TIME SAMPLED: 14:00

PH @ 25C	7.3	
A READING	---	ML N/30 H2SO4
M.O. READING	5.7	ML N/30 H2SO4
CONDUCTIVITY	500	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	320	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	116
SILICA (SiO2)	12
CHLORIDE (Cl)	38
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	<0.5
COLLOIDAL SiO2	0.25
TOTAL ORGANIC CARBON	1

	TOTAL (MG/L)
CALCIUM (Ca)	50
MAGNESIUM (Mg)	11
SODIUM (Na)	21
POTASSIUM (K)	2.5
IRON (Fe)	0.1
COPPER (Cu)	<0.05
MANGANESE (Mn)	1.10
ALUMINUM (Al)	<0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	170

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 12/11/86

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E.I. DuPONT deNEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W. VA.
COPIES: ---

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W. VA.

SAMPLE NUMBER: 144635
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 436
DATE SAMPLED: 11/14/86 TIME SAMPLED: 01:02

PH @ 25C	7.0	
A READING	---	ML N/30 H2SO4
M.O. READING	5.9	ML N/30 H2SO4
CONDUCTIVITY	500	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	320	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	120
SILICA (SiO2)	12
CHLORIDE (Cl)	37
SULFATE (SO4)	80
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	<0.5
COLLOIDAL SiO2	0.06
TOTAL ORGANIC CARBON	2

	TOTAL (MG/L)
CALCIUM (Ca)	50
MAGNESIUM (Mg)	10
SODIUM (Na)	25
POTASSIUM (K)	2.5
IRON (Fe)	0.2
COPPER (Cu)	<0.05
MANGANESE (Mn)	1.00
ALUMINUM (Al)	<0.1
ZINC (Zn)	0.20
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	166

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 12/11/86

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E.I. DuPONT deNEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W. VA.
COPIES: ---

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W. VA.

SAMPLE NUMBER: 144636
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 436
DATE SAMPLED: 11/14/86 TIME SAMPLED: 12:00

PH @ 25C	7.3	
A READING	---	ML N/30 H2SO4
M.O. READING	5.7	ML N/30 H2SO4
CONDUCTIVITY	500	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	310	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	116
SILICA (SiO2)	12
CHLORIDE (Cl)	34
SULFATE (SO4)	80
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	<0.5
COLLOIDAL SiO2	0.06
TOTAL ORGANIC CARBON	2

	TOTAL (MG/L)
CALCIUM (Ca)	50
MAGNESIUM (Mg)	11
SODIUM (Na)	22
POTASSIUM (K)	2.5
IRON (Fe)	0.2
COPPER (Cu)	<0.05
MANGANESE (Mn)	0.95
ALUMINUM (Al)	<0.1
ZINC (Zn)	0.25
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	170

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 12/11/86

SELECTIVE SYSTEM ANALYSIS

WATER MANAGEMENT DIVISION

CALGON CORPORATION

P.O. BOX 1346 PITTSBURGH, PA 15230

	WELL NUMBER					
ANALYSIS	444	444	444	445	445	445
10350 pH	7.1	6.9	6.8	6.9	6.6	6.6
10010 A. Rdg.	-	-	-	-	-	-
10011 M.O. Rdg.	3.4	3.2	3.1	3.1	3.0	3.0
P Rdg.	-	-	-	-	-	-
M Rdg.	56.8	53.4	51.8	51.8	50.1	50.1
10200 Conductivity	400	400	400	400	400	400
10530 Suspended Solids	< 5	< 5	< 5	< 5	< 5	< 5
10540 Total Solids	230	240	230	230	230	230
10460 SiO_2	5.6	5.4	5.7	7.3	7.5	7.1
10150 Cl	25	24	26	25	25	25
10580 SO_4	80	85	80	85	85	85
10320 NO_3	5.5	5.0	5.0	4.5	5.0	5.5
10850 Ortho PO_4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
10851 Poly PO_4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
METALS						
1090 Ca	30	45	31	30	32	32
1091 Mg	7.5	10	7.5	7.0	7.0	7.2
1092 Na	15	19	12	13	14	14
1093 K	< 0.5	1.5	0.5	1.0	1.0	1.0
1094 Fe	< 0.05	0.1	< 0.05	< 0.05	0.1	< 0.05
1095 Cu	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1096 Mn	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1097 Al	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
1098 Zn	< 0.05	0.10	< 0.05	< 0.05	0.15	0.10
1025 Hardness	106	154	108	104	109	110
10130 TOC	3	< 1	3	3	3	4
10480 Colloidal SiO_2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W. VA.
COPIES: ---

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W. VA.

SAMPLE NUMBER: 158292
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 444
DATE SAMPLED: 4/8/87 TIME SAMPLED: 09:45

PH @ 25C	7.1	
A READING	---	ML N/30 H2SO4
M.O. READING	3.4	ML N/30 H2SO4
CONDUCTIVITY	400	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	230	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	69
SILICA (SiO2)	5.6
CHLORIDE (Cl)	25
SULFATE (SO4)	80
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	5.5
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	3

	TOTAL (MG/L)
CALCIUM (Ca)	30
MAGNESIUM (Mg)	7.5
SODIUM (Na)	15
POTASSIUM (K)	<0.5
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	<0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	106

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 05/01/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO. INC
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E.I. DUPONT DE NEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W. VA.
COPIES: ---

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W. VA.

SAMPLE NUMBER: 157564
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 444
DATE SAMPLED: 4/8/87 TIME SAMPLED: 11:30

PH @ 25C	6.9	
A READING	---	ML N/30 H2SO4
M.O. READING	3.2	ML N/30 H2SO4
CONDUCTIVITY	400	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	240	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	65
SILICA (SiO2)	5.4
CHLORIDE (Cl)	24
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	5.0
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	<1

	TOTAL (MG/L)
CALCIUM (Ca)	45
MAGNESIUM (Mg)	10
SODIUM (Na)	19
POTASSIUM (K)	1.5
IRON (Fe)	0.1
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	0.1
ZINC (Zn)	0.10
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	154

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 04/25/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W. VA.
COPIES: ---

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W. VA.

SAMPLE NUMBER: 158291
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 444
DATE SAMPLED: 4/9/87 TIME SAMPLED: 09:15

PH @ 25C	6.8	
A READING	---	ML N/30 H2SO4
M.O. READING	3.1	ML N/30 H2SO4
CONDUCTIVITY	400	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	230	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	63
SILICA (SiO2)	5.7
CHLORIDE (Cl)	26
SULFATE (SO4)	80
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	5.0
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	3

	TOTAL (MG/L)
CALCIUM (Ca)	31
MAGNESIUM (Mg)	7.5
SODIUM (Na)	12
POTASSIUM (K)	0.5
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	<0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	108

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 05/01/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS SPONSOR: BILLY, R.
LOCATION: WASHINGTON WORKS MAIL DROP: PARKERSBURG, W. VA.
PARKERSBURG, W. VA.
COPIES: ---

SAMPLE NUMBER: 158290
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 445
DATE SAMPLED: 4/11/87 TIME SAMPLED: 08:45

PH @ 25C	6.9	
A READING	---	ML N/30 H2SO4
M.O. READING	3.1	ML N/30 H2SO4
CONDUCTIVITY	400	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	230	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	63
SILICA (SiO2)	7.3
CHLORIDE (Cl)	25
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	4.5
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	3

	TOTAL (MG/L)
CALCIUM (Ca)	30
MAGNESIUM (Mg)	7.0
SODIUM (Na)	13
POTASSIUM (K)	1.0
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	<0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	104

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 05/01/87

CALGON CORPORATION
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WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W. VA.
COPIES: ---

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W. VA.

SAMPLE NUMBER: 158289
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 445
DATE SAMPLED: 4/11/87 TIME SAMPLED: 11:00 Hours

PH @ 25C	6.6	
A READING	---	ML N/30 H2SO4
M.O. READING	3.0	ML N/30 H2SO4
CONDUCTIVITY	400	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	230	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	61
SILICA (Si02)	7.5
CHLORIDE (Cl)	25
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
NITRATE (NO3)	5.0
COLLOIDAL Si02	<0.01
TOTAL ORGANIC CARBON	3

	TOTAL (MG/L)
CALCIUM (Ca)	32
MAGNESIUM (Mg)	7.0
SODIUM (Na)	14
POTASSIUM (K)	1.0
IRON (Fe)	0.1
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	<0.1
ZINC (Zn)	0.15
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	109

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 05/01/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W. VA.
COPIES: ---

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W. VA.

SAMPLE NUMBER: 158288
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 445
DATE SAMPLED: 4/12/87 TIME SAMPLED: 08:15

PH @ 25C	6.6	
A READING	---	ML N/30 H2SO4
M.O. READING	3.0	ML N/30 H2SO4
CONDUCTIVITY	400	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	230	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	61
SILICA (SiO2)	7.1
CHLORIDE (Cl)	25
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	5.5
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	4

	TOTAL (MG/L)
CALCIUM (Ca)	32
MAGNESIUM (Mg)	7.2
SODIUM (Na)	14
POTASSIUM (K)	1.0
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	<0.1
ZINC (Zn)	0.10
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	110

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 05/01/87

SELE[illegible]VE SYSTEM ANALYSIS

WATER MANAGEMENT DIVISION

CALGON

P.O. Box 1346 Pittsburgh, PA 15230

ANALYSIS	Well Number 446	446	446
10350 pH	6.7	6.7	6.7
10010 A. Rdg.	-	-	-
10011 M.O. Rdg.	3.1	3.2	3.4
P Rdg.	-	-	-
M Rdg.	51.8	53.4	56.8
10200 Conductivity	420	410	420
10530 Suspended Solids	<5	<5	<5
10540 Total Solids	260	250	250
10460 SiO_2	8.3	8.0	7.8
10150 Cl	28	26	25
10580 SO_4	85	85	85
10320 NO_3	2.0	2.0	2.0
10850 Ortho PO_4	0.05	0.10	<0.05
10851 Poly PO_4	0.10	0.15	0.10
TO 01 Metals			
1090 Ca	39	39	42
1091 Mg	8.0	8.0	8.0
1092 Na	20	19	21
1093 K	2.5	2.0	2.5
1094 Fe	0.1	<0.05	<0.05
1095 Cu	<0.05	<0.05	<0.05
1096 Mn	0.30	0.30	0.30
1097 Al	0.1	0.1	<0.1
1098 Zn	<0.05	0.10	0.20
1025 Hardness	130	130	138
10130 TOC	<1	<1	<1
10480 Colloidal SiO_2	<0.01	<0.01	<0.01

H-12

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W.VA.
COPIES: ---

SPONSOR: BILLY
MAIL DROP: PARKERSBURG, PA.

SAMPLE NUMBER: 179236
DESCRIPTION: COOLING
SAMPLE POINT: WELL NO. 446
DATE SAMPLED: 10/29/87 TIME SAMPLED: 10:00

PH @ 25C	6.7	
A READING	---	ML N/30 H2SO4
M.O. READING	3.1	ML N/30 H2SO4
CONDUCTIVITY	420	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	260	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	63
SILICA (SiO2)	8.3
CHLORIDE (Cl)	28
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	0.05
POLYPHOSPHATE(PO4)	0.10
NITRATE (NO3)	2.0
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	<1

	TOTAL (MG/L)
CALCIUM (Ca)	39
MAGNESIUM (Mg)	8.0
SODIUM (Na)	20
POTASSIUM (K)	2.5
IRON (Fe)	0.1
COPPER (Cu)	<0.05
MANGANESE (Mn)	0.30
ALUMINUM (Al)	0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	130

CALGON ANALYTICAL LABORATORIES, APPROVED BY: RJF
DATE REPORTED: 11/25/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W.VA.
COPIES: ---

SPONSOR: BILLY
MAIL DROP: PARKERSBURG, PA.

SAMPLE NUMBER: 179237
DESCRIPTION: COOLING
SAMPLE POINT: WELL NO. 446
DATE SAMPLED: 10/29/87 TIME SAMPLED: 22:00

PH @ 25C	6.7	
A READING	---	ML N/30 H2SO4
M.O. READING	3.2	ML N/30 H2SO4
CONDUCTIVITY	410	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	250	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	65
SILICA (SiO2)	8.0
CHLORIDE (Cl)	26
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	0.10
POLYPHOSPHATE(PO4)	0.15
NITRATE (NO3)	2.0
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	<1

	TOTAL (MG/L)
CALCIUM (Ca)	39
MAGNESIUM (Mg)	8.0
SODIUM (Na)	19
POTASSIUM (K)	2.0
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	0.30
ALUMINUM (Al)	0.1
ZINC (Zn)	0.10
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	130

CALGON ANALYTICAL LABORATORIES, APPROVED BY: RJF
DATE REPORTED: 11/25/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-80

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS
LOCATION: WASHINGTON WORKS
PARKERSBURG, W.VA.
COPIES: ---

SPONSOR: BILLY
MAIL DROP: PARKERSBURG, PA.

SAMPLE NUMBER: 179238
DESCRIPTION: COOLING
SAMPLE POINT: WELL NO. 446
DATE SAMPLED: 10/30/87 TIME SAMPLED: 09:00

PH @ 25C	6.7	
A READING	---	ML N/30 H2SO4
M.O. READING	3.4	ML N/30 H2SO4
CONDUCTIVITY	420	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	250	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	69
SILICA (SiO2)	7.8
CHLORIDE (Cl)	25
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	0.10
NITRATE (NO3)	2.0
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	<1

	TOTAL (MG/L)
CALCIUM (Ca)	42
MAGNESIUM (Mg)	8.0
SODIUM (Na)	21
POTASSIUM (K)	2.5
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	0.30
ALUMINUM (Al)	<0.1
ZINC (Zn)	0.20
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	138

CALGON ANALYTICAL LABORATORIES, APPROVED BY: RJF
DATE REPORTED: 11/25/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS SPONSOR: BILLY
LOCATION: WASHINGTON WORKS MAIL DROP: PARKERSBURG, W. VA.
PARKERSBURG, W. VA.
COPIES: ---

SAMPLE NUMBER: 160471
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. [redacted]R
DATE SAMPLED: 5/4/87 TIME SAMPLED: 13:00

PH @ 25C	6.9	
A READING	---	ML N/30 H2SO4
M.O. READING	4.4	ML N/30 H2SO4
CONDUCTIVITY	450	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	240	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	89
SILICA (SiO2)	9.2
CHLORIDE (Cl)	22
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	0.20
NITRATE (NO3)	3.5
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	5

	TOTAL (MG/L)
CALCIUM (Ca)	48
MAGNESIUM (Mg)	10
SODIUM (Na)	15
POTASSIUM (K)	3.0
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	0.50
ALUMINUM (Al)	0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	161

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 05/28/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS SPONSOR: BILLY
LOCATION: WASHINGTON WORKS MAIL DROP: PARKERSBURG, W. VA.
PARKERSBURG, W. VA.
COPIES: ---

SAMPLE NUMBER: 160469
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. [redacted]R
DATE SAMPLED: 5/4/87 TIME SAMPLED: 15:00

PH @ 25C	6.8	
A READING	---	ML N/30 H2SO4
M.O. READING	4.3	ML N/30 H2SO4
CONDUCTIVITY	450	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	240	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	87
SILICA (SiO2)	8.7
CHLORIDE (Cl)	22
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	3.5
COLLOIDAL SiO2	3.8
TOTAL ORGANIC CARBON	2

	TOTAL (MG/L)
CALCIUM (Ca)	50
MAGNESIUM (Mg)	11
SODIUM (Na)	18
POTASSIUM (K)	3.5
IRON (Fe)	0.3
COPPER (Cu)	<0.05
MANGANESE (Mn)	0.75
ALUMINUM (Al)	0.2
ZINC (Zn)	<0.05
NICKEL (Ni)	0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	170

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 05/28/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E. I. DUPONT DE NEMOURS SPONSOR: BILLY
LOCATION: WASHINGTON WORKS MAIL DROP: PARKERSBURG, W. VA.
PARKERSBURG, W. VA.
COPIES: ---

SAMPLE NUMBER: 160470
DESCRIPTION: SOURCE
SAMPLE POINT: WELL NO. 4 R
DATE SAMPLED: 5/4/87 TIME SAMPLED: 18:00

PH @ 25C	6.9	
A READING	---	ML N/30 H2SO4
M.O. READING	4.2	ML N/30 H2SO4
CONDUCTIVITY	450	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST <5	MG/L
TOTAL SOLIDS	230	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	85
SILICA (SiO2)	8.6
CHLORIDE (Cl)	23
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	0.1
NITRATE (NO3)	3.5
COLLOIDAL SiO2	<0.01
TOTAL ORGANIC CARBON	3

	TOTAL (MG/L)
CALCIUM (Ca)	46
MAGNESIUM (Mg)	9.2
SODIUM (Na)	16
POTASSIUM (K)	2.5
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	0.60
ALUMINUM (Al)	0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	153

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 05/28/87

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E.I. DUPONT de NEMOURS
CUSTOMER LOCATION: WASHINGTON WORKS
PARKERSBURG, W.VA.
COPIES:

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W.VA.

SAMPLE NUMBER: 127212 SAMPLE POINT: WELL NO. TEST 0
SAMPLE DESCRIPTION: SOURCE
DATE SAMPLED: 5/16/86 TIME SAMPLED: 09:15

PH @ 25C	6.8	
A READING	---	ML N/30 H2SO4
M.O. READING	3.6	ML N/30 H2SO4
CONDUCTIVITY	330	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST.<5	MG/L
TOTAL SOLIDS	270	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	73
SILICA (SiO2)	8.4
CHLORIDE (Cl)	24
SULFATE (SO4)	90
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	5.0
COLLOIDAL SiO2	0.01
TOTAL ORGANIC CARBON	1

	TOTAL (MG/L)
CALCIUM (Ca)	40
MAGNESIUM (Mg)	10
SODIUM (Na)	21
POTASSIUM (K)	1.5
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	<0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	141

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 06/04/86

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E.I. DUPONT de NEMOURS
CUSTOMER LOCATION: WASHINGTON WORKS
PARKERSBURG, W.VA.
COPIES:

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W.VA.

SAMPLE NUMBER: 127213 SAMPLE POINT: WELL NO. TEST 0
SAMPLE DESCRIPTION: SOURCE
DATE SAMPLED: 5/16/86 TIME SAMPLED: 10:15

PH @ 25C	6.7	
A READING	---	ML N/30 H2SO4
M.O. READING	3.4	ML N/30 H2SO4
CONDUCTIVITY	380	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST.	MG/L
TOTAL SOLIDS	260	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	69
SILICA (SiO2)	8.3
CHLORIDE (Cl)	24
SULFATE (SO4)	90
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	4.5
COLLOIDAL SiO2	0.01
TOTAL ORGANIC CARBON	1

	TOTAL (MG/L)
CALCIUM (Ca)	40
MAGNESIUM (Mg)	10
SODIUM (Na)	21
POTASSIUM (K)	1.5
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	<0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	141

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 06/04/86

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E.I. DUPONT de NEMOURS
CUSTOMER LOCATION: WASHINGTON WORKS
PARKERSBURG, W.VA.
COPIES:

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W.VA.

SAMPLE NUMBER: 127210 SAMPLE POINT: WELL NO. 9
SAMPLE DESCRIPTION: SOURCE
DATE SAMPLED: 5/13/86 TIME SAMPLED: 15:00

PH @ 25C	7.2	
A READING	---	ML N/30 H2SO4
M.O. READING	3.6	ML N/30 H2SO4
CONDUCTIVITY	330	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST.<5	MG/L
TOTAL SOLIDS	260	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	73
SILICA (SiO2)	5.8
CHLORIDE (Cl)	24
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	5.5
COLLOIDAL SiO2	0.35
TOTAL ORGANIC CARBON	1

	TOTAL (MG/L)
CALCIUM (Ca)	40
MAGNESIUM (Mg)	10
SODIUM (Na)	22
POTASSIUM (K)	1.0
IRON (Fe)	0.1
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	0.2
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	141

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 06/04/86

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E.I. DUPONT de NEMOURS
CUSTOMER LOCATION: WASHINGTON WORKS
PARKERSBURG, W.VA.
COPIES:

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W.VA.

SAMPLE NUMBER: 127209 SAMPLE POINT: WELL NO. Q
SAMPLE DESCRIPTION: SOURCE
DATE SAMPLED: 5/14/86 TIME SAMPLED: 13:15

PH @ 25C	7.1	
A READING	---	ML N/30 H2SO4
M.O. READING	3.6	ML N/30 H2SO4
CONDUCTIVITY	380	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST. <5	MG/L
TOTAL SOLIDS	260	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	73
SILICA (SiO2)	6.2
CHLORIDE (Cl)	25
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	5.0
COLLOIDAL SiO2	0.01
TOTAL ORGANIC CARBON	3

	TOTAL (MG/L)
CALCIUM (Ca)	40
MAGNESIUM (Mg)	10
SODIUM (Na)	23
POTASSIUM (K)	1.0
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05
HARDNESS (calc)	141

CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 06/04/86

CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.
WATER MANAGEMENT DIVISION CALGON CORPORATION BOX 1346 PITTSBURGH, PA 15230 (412) 777-8000

WATER ANALYSIS REPORT

CUSTOMER NAME: E.I. DUPONT de NEMOURS
CUSTOMER LOCATION: WASHINGTON WORKS
PARKERSBURG, W.VA.
COPIES:

SPONSOR: BILLY, R.
MAIL DROP: PARKERSBURG, W.VA.

SAMPLE NUMBER: 127211 SAMPLE POINT: WELL NO. TEST Q
SAMPLE DESCRIPTION: SOURCE
DATE SAMPLED: 5/14/86 TIME SAMPLED: 20:00

PH @ 25C	7.2	
A READING	---	ML N/30 H2SO4
M.O. READING	3.7	ML N/30 H2SO4
CONDUCTIVITY	380	UN-NEUTRALIZED, umhos
SUSPENDED SOLIDS	EST.<5	MG/L
TOTAL SOLIDS	260	MG/L

	-MG/L-
HYDROXIDE (OH)	---
CARBONATE (CO3)	---
BICARBONATE (HCO3)	75
SILICA (SiO2)	6.0
CHLORIDE (Cl)	24
SULFATE (SO4)	85
ORTHO PHOSPHATE(PO4)	<0.05
POLYPHOSPHATE(PO4)	<0.1
NITRATE (NO3)	5.0
COLLOIDAL SiO2	0.01
TOTAL ORGANIC CARBON	1

	TOTAL (MG/L)
CALCIUM (Ca)	40
MAGNESIUM (Mg)	9.0
SODIUM (Na)	23
POTASSIUM (K)	1.0
IRON (Fe)	<0.05
COPPER (Cu)	<0.05
MANGANESE (Mn)	<0.05
ALUMINUM (Al)	<0.1
ZINC (Zn)	<0.05
NICKEL (Ni)	<0.05
CHROMIUM (CrO4)	<0.05

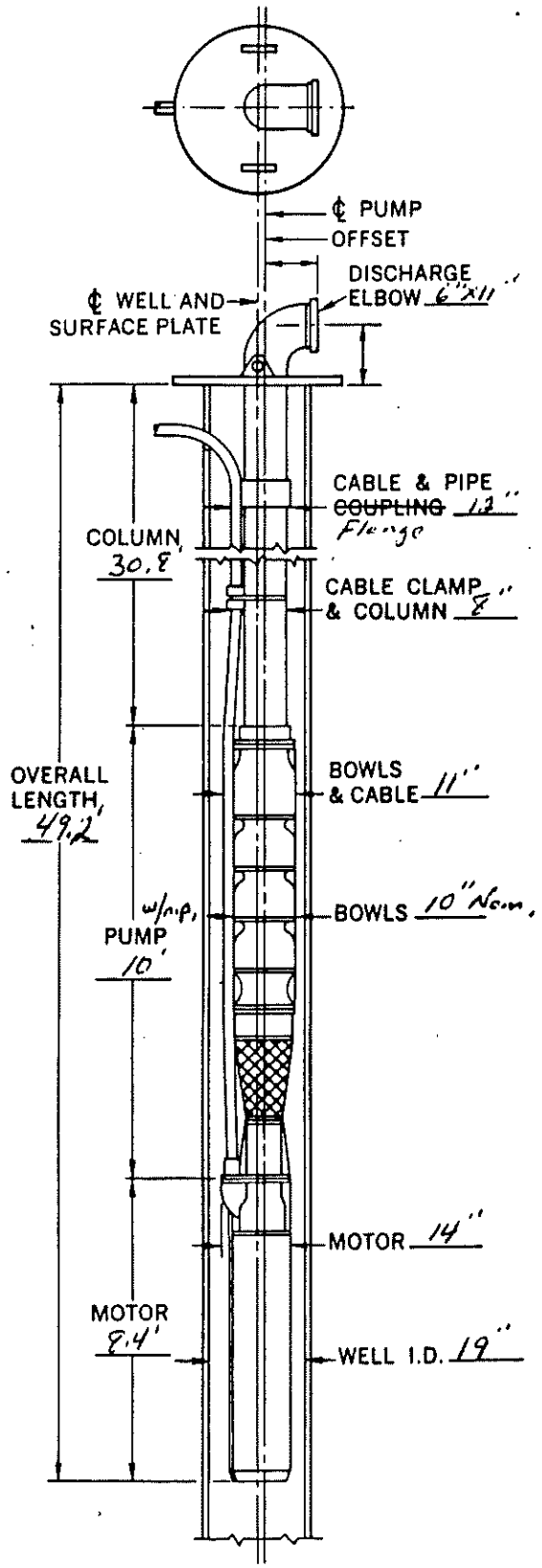
CALGON ANALYTICAL LABORATORIES, APPROVED BY: AEC
DATE REPORTED: 06/04/86

APPENDIX I

PUMP INSTALLATION DATA

BJ Byron Jackson Pump Division
BORG-WARNER CORPORATION

SUBMERSIBLE OUTLINE
STANDARD SURFACE PLATE CONSTRUCTION



DATE 2-3-88

NAME OF CUSTOMER Dupont - Washington Work
Well # 436 Replacement

~~PROPOSITION NO.~~ Parkersburg, W Va

ORDER NO. _____

PURCHASE ORDER NO. _____

NO. OF UNITS _____

SURFACE PLATE _____ O.D. _____ TH'K

8—⅞" FOUNDATION HOLES. STR. ℄ ON _____ B.C.

_____ "—8 T.P.I. —¾" TAPER T&C ST'D. COLUMN

6"x 11½ "—150# F.F. (STEEL) DISCHARGE FLANGE

BOWL ASSEMBLY 10 GM (Bronze) 8 STGS.

125 H.P. 1760 RPM B.J. SUBM. MOTOR TYPE 4 pole

14" SIZE 3 PH. 60 CYCLE 2300 VOLT

#14-5054-4-2R ~~GPM~~ Model #0 ~~TDH~~

CABLE SIZE _____ VOLTAGE _____ LENGTH _____

REMARKS: pulled pump removed
.036" shims - impeller clearance
now at .011"
shortened setting 5'

GPM - 350 TDH - 396

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.

CERTIFIED CORRECT _____

DATE _____

P-650 4/69

MOODY DRILLING COMPANY, INC.

Well Cleaning & Pump Installation Report

Client Dupont - Washington Works Date Started 2-1-82
Address Parkersburg W. Va. Completion Date 2-3-82
Well No. 436 Replacement Record of Pump Test before Cleaning

DATE	TIME	PUMPING LEVEL	DRAWDOWN	G.P.M.	SPECIFIC CAPACITY

Water Analysis #1
Hardness _____ Iron _____ Ph _____ Time _____ Temperature _____

Record of Pump Test after Cleaning

DATE	TIME	PUMPING LEVEL	DRAWDOWN	G.P.M.	SPECIFIC CAPACITY

Water Analysis #2
Hardness _____ Iron _____ Ph _____ Time _____ Temperature _____

WELL

Well Size 20" Casing Size 20" O.D. Static Level 20' Screen Type N/A
Well Depth 61.3' Casing Length N/A Well Screen Length N/A Screen Size N/A

PUMP

Pump No. N/A Make Byron Jackson Type Sub (Bowl Bowls) Setting 38.8' Tot. 5.7' Fr.
Suction — Basket — Size Column 6" cement lined Size of Oil Tubing —
Size Top Special — Size Pump 10" Nem No. of Stages 8 Impellers (Br.) or C.I. semi open
Head 6" O.S. Length Column 30.8' Wt. Pump — (Flgd) or cpld, Column Ind Rel. 1pc 13.1, 1pc 8
Changes in Pump, if any removed .036 shims impeller clearance, oil No. 4 Shortened Col. 5 Size of ~~Shafting~~ 1pc 10.8'
How long did you operate pump 0 hrs Length of air line None
Operating insturctions given to — Title —
Report by letter any difficulties or extra expense on job. —

MOTOR

Make Byron Jackson Volts 2300 Phase 3 H.P. 125
Frame — Model O Type 4 Pole Cycle 60 Amperes 30 F.
R.P.M. 1760 Form — Serial 14-505-4-4-2RB
Miscellaneous Information -- Procedure or occurrences out of the ordinary.

(1) All measurements Top of Casing
(2) Well is in pit, Top of Casing to Top of Pit = +5.7'
(3) For overall setting (bottom of motor) add 10.4'

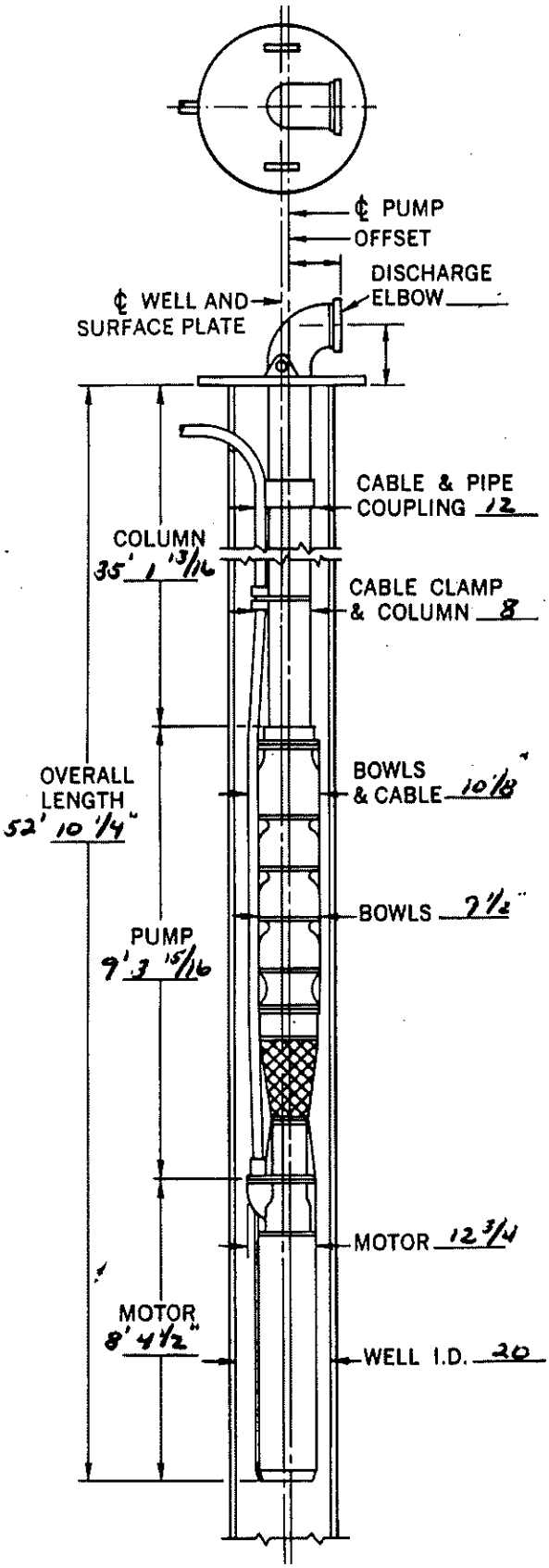
List Necessary Material i.e. acids, well cleaning compounds, pump repair parts, etc., on the reverse side.

Larry Hoosier Bill Knight & Dan Mill
Work Performed by

BJ Byron Jackson Pump Division
BORG-WARNER CORPORATION

SUBMERSIBLE OUTLINE

STANDARD SURFACE PLATE CONSTRUCTION



DATE 5-28-87

NAME OF CUSTOMER E.I. DUPONT DE NEMOURS

#444 BLENNER HASSETT ISLAND

PROPOSITION NO. _____

ORDER NO. _____

PURCHASE ORDER NO. _____

NO. OF UNITS _____

SURFACE PLATE 6 x 11 O.D. _____ TH'K

8 – 7/8" FOUNDATION HOLES. STR. ℄ ON _____ B.C.

_____"–8 T.P.I. – 3/4" TAPER T&C ST'D. COLUMN

_____"–150# F.F. (STEEL) DISCHARGE FLANGE

BOWL ASSEMBLY 10" MQ - H / 8 STGS.

125 H.P. 1760 RPM **B.J.** SUBM. MOTOR TYPE H

14 SIZE 3 PH. _____ CYCLE 2300 VOLT

500' GPM 396 TDH

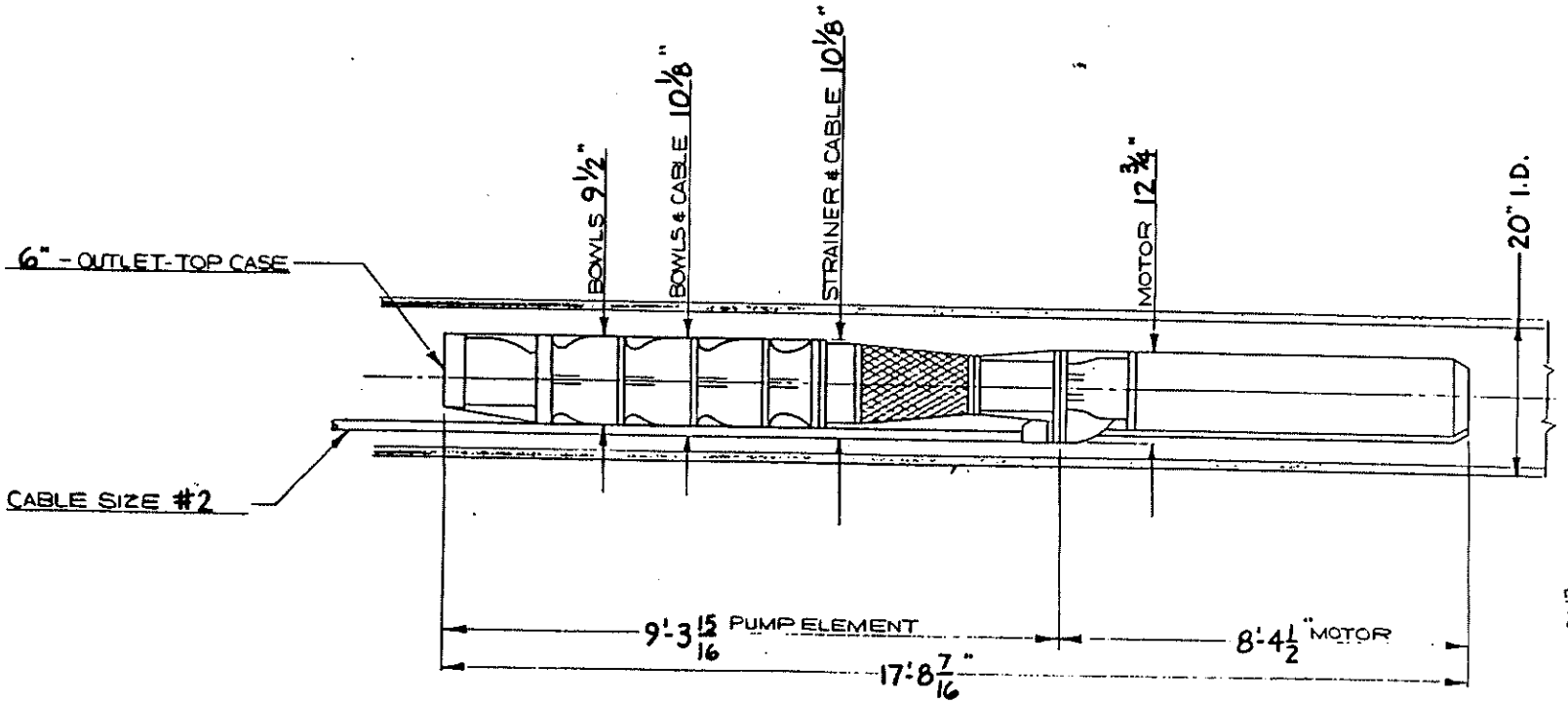
CABLE SIZE 42-3 VOLTAGE _____ LENGTH 40'

REMARKS: _____

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.

CERTIFIED CORRECT _____

DATE _____



BYRON JACKSON PUMPS INC.

CUSTOMER ORDER NO.	PROP. NO.	ITEM NO.	B. J. ORDER NO.
5683			861C0644

APPROVED FOR CONSTRUCTION
BY
DATE

MOTOR
H.P. 125 VOLTS 2300
CYCLE 60 PHASE 3
POLE 4 TYPE 'H' 14"

CUSTOMER
TRIANGLE PUMP & SUPPLY

DISTRIBUTION	LA.	S. S.	CAN.	HEX.	HOLL.			
DATE								

10 MQ-8 STG. SUBMERSIBLE

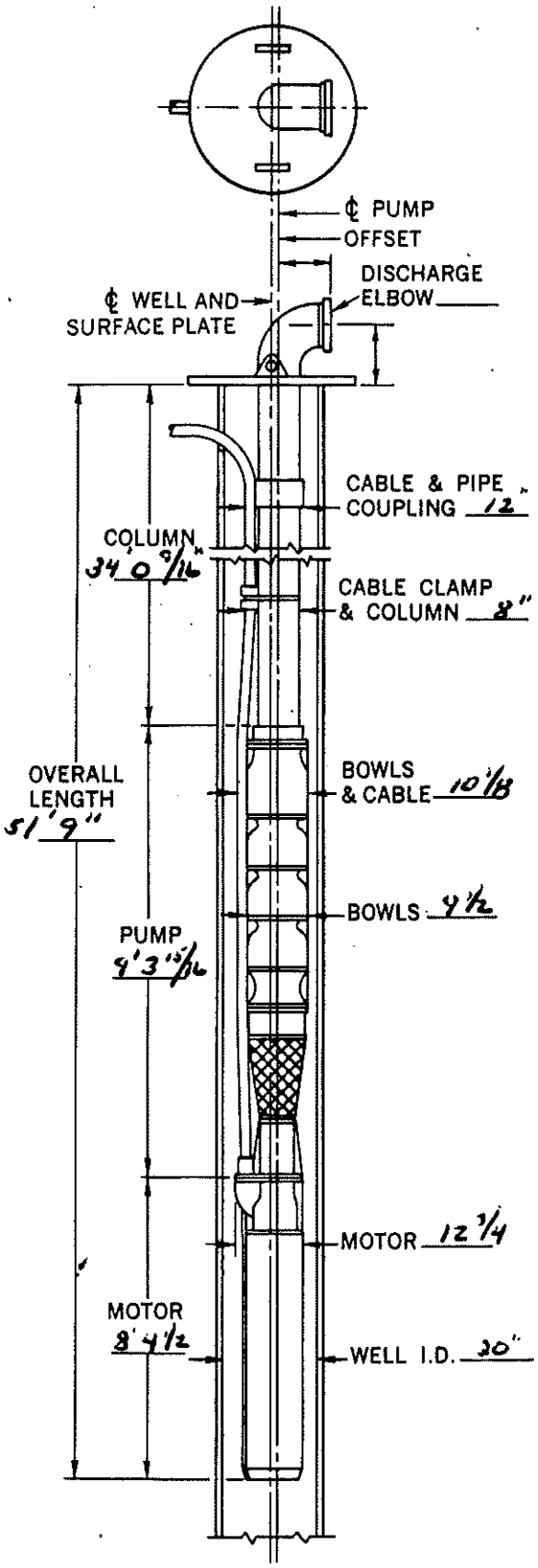
BYRON JACKSON DIVISION

ORDER NO. 861C0644 | CHECKED BY
DRAWN BY Karen C. | DATE 8 OCT 86
DK-861C0644

BJ **Byron Jackson Pump Division**
BORG-WARNER CORPORATION

SUBMERSIBLE OUTLINE

STANDARD SURFACE PLATE CONSTRUCTION



DATE 6-3-87

NAME OF CUSTOMER E.I. DUPONT DE NEMOURES

#445 BLENNER HASSETT ISLAND

PROPOSITION NO. _____

ORDER NO. _____

PURCHASE ORDER NO. _____

NO. OF UNITS _____

SURFACE PLATE 6" x 11 O.D. _____ TH'K

8 – 7/8" FOUNDATION HOLES. STR. ℄ ON _____ B.C.

_____"–8 T.P.I. – 3/4" TAPER T&C ST'D. COLUMN

_____"–150# F.F. (STEEL) DISCHARGE FLANGE

BOWL ASSEMBLY 10" mQ-H / 8 STGS.

125 H.P. 1760 RPM **B.J.** SUBM. MOTOR TYPE H

14" SIZE 3 PH. _____ CYCLE 2300 VOLT

500 GPM 396 TDH

CABLE SIZE #2-3 VOLTAGE _____ LENGTH 40'

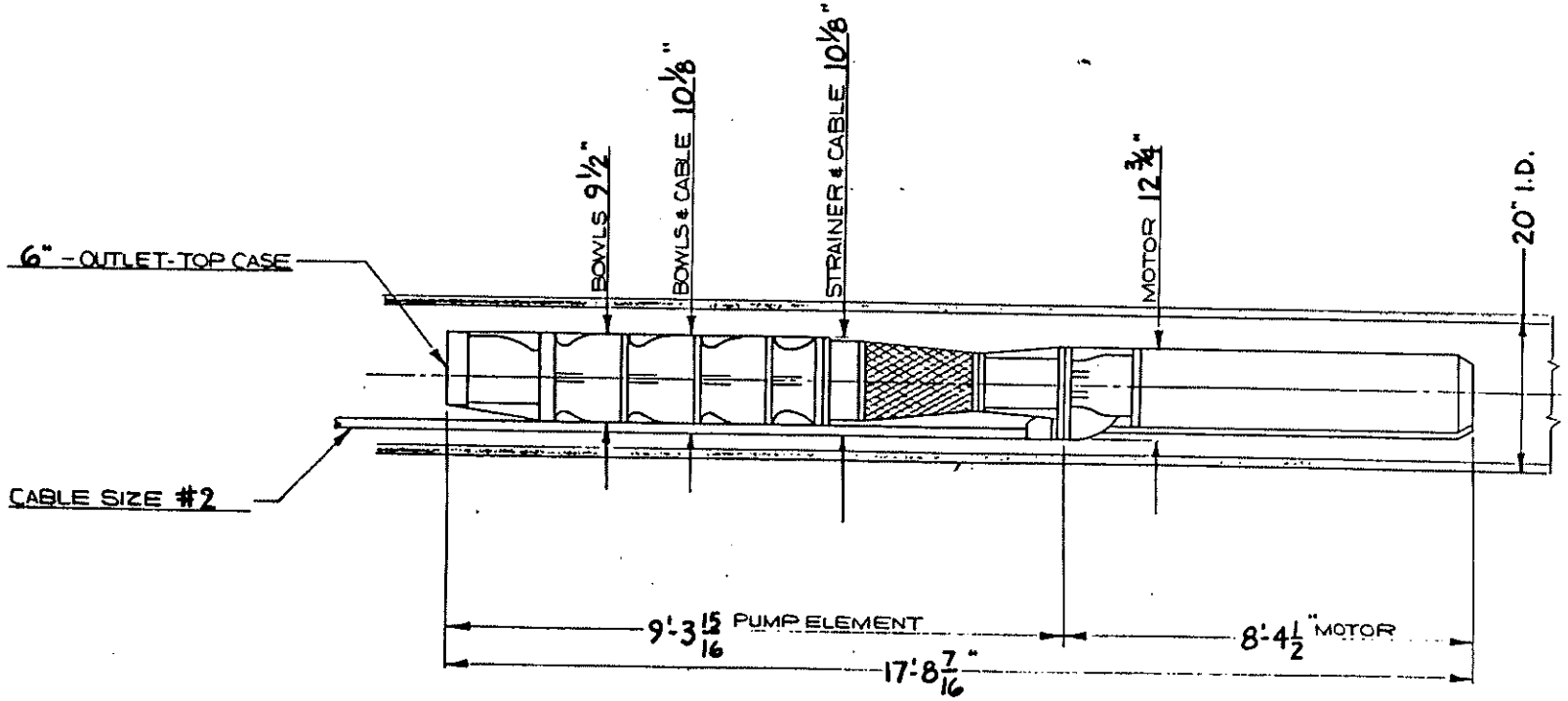
REMARKS: _____

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.

CERTIFIED CORRECT _____

DATE _____

P-650 4/69



BYRON JACKSON PUMPS INC.

CUSTOMER ORDER NO.	PROP. NO.	ITEM NO.	B. J. ORDER NO.
5683			861C0644

APPROVED FOR CONSTRUCTION
BY
DATE

MOTOR

H.P. 125 VOLTS 2300
CYCLE 60 PHASE 3
POLE 4 TYPE H- 14"

CUSTOMER
TRIANGLE PUMP & SUPPLY

DISTRIBUTION	L.A.	S. B.	CAN.	MEX.	HOLL.			LAW
DATE								

LET	CHANGED FROM	BY	DATE

10 MQ-8 STG. SUBMERSIBLE

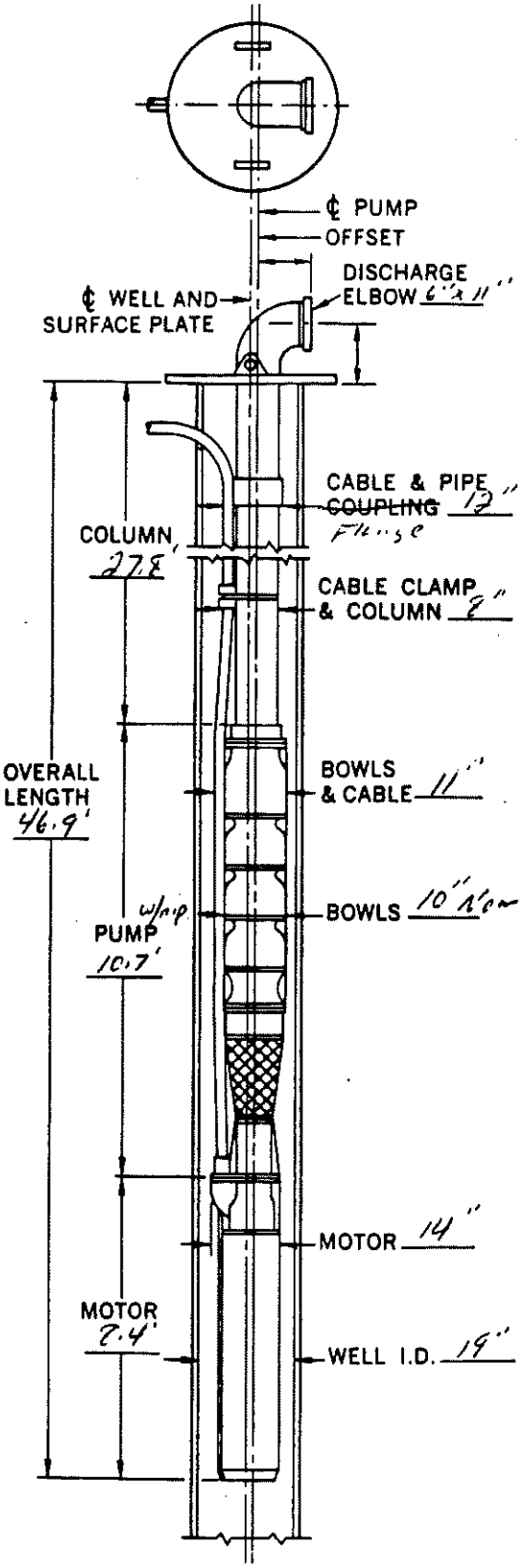
ORDER NO. 861C0644 CHECKED BY
DRAWN BY Karen C. DATE 8 OCT 86

BYRON JACKSON DIVISION
BORG-WARNER CORPORATION

SK-861C0644

BJ Byron Jackson Pump Division
BORG-WARNER CORPORATION

SUBMERSIBLE OUTLINE
STANDARD SURFACE PLATE CONSTRUCTION



DATE 2-5-88

NAME OF CUSTOMER Dupont - Washington Wor.
Well # 446

~~PROPOSITION NO.~~ Parkersburg W Va.

ORDER NO. _____

PURCHASE ORDER NO. _____

NO. OF UNITS _____

SURFACE PLATE _____ O.D. _____ TH'K

8 – 7/8" FOUNDATION HOLES. STR. ℄ ON _____ B.C.

_____ "–8 T.P.I. – 3/4" TAPER T&C ST'D. COLUMN

6" x 11 "–150# F.F. (STEEL) DISCHARGE FLANGE

BOWL ASSEMBLY ser.# 871-C-0775 model# 10MQ / 8 (Brong STGS.

125 H.P. 1760 RPM B.J. SUBM. MOTOR TYPE 4 pole

14 SIZE 3 PH. 60 CYCLE 2300 VOLT

500 GPM 396 TDH

14-5231-4-1

CABLE SIZE _____ VOLTAGE _____ LENGTH _____

REMARKS: New Installation

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.

CERTIFIED CORRECT _____

DATE _____

P-650 4/69

MOODY DRILLING COMPANY, INC.

Well Cleaning & Pump Installation Report

Client Dupont - Washington Works Date Started 2-3-88
Address Parkersburg, W. Va. Completion Date 2-5-88
Well No. 446 Record of Pump Test before Cleaning

DATE	TIME	PUMPING LEVEL	DRAWDOWN	G.P.M.	SPECIFIC CAPACITY

Water Analysis #1
Hardness _____ Iron _____ Ph _____ Time _____ Temperature _____

Record of Pump Test after Cleaning

DATE	TIME	PUMPING LEVEL	DRAWDOWN	G.P.M.	SPECIFIC CAPACITY

Water Analysis #2
Hardness _____ Iron _____ Ph _____ Time _____ Temperature _____

WELL

Well Size 20" Casing Size 20" O.D. Static Level 11.2' Screen Type Cook - Pipe Size
Well Depth 62' Casing Length — Well Screen Length 13.3' Screen Size 18" - I.D. Gravel Pack

PUMP

Pump No. Model 10M @ 8 Stage Ser. # 871-C-0775 Make Byron Jackson Type Sub (Bronze Bowls) Setting 36.5' Top of Suction
~~Suction~~ 500 gpm @ 396' Basket — Size Column 6" cement lined Size of Oil Tubing —
Size Top Special _____ Size Pump 10" Nom No. of Stages 8 Impellers Br. or C.I. Semi open
Head 6" Dis Length Column 27.8' Wt. Pump Flgd. or cpld. Column Hdpc @ 9', ipc @ 16' ipc
Changes in Pump, if any New Installation Size of Shafting —
How long did you operate pump Ohrs. Length of air line None
Operating insturctions given to — Title —
Report by letter any difficulties or extra expense on job. —

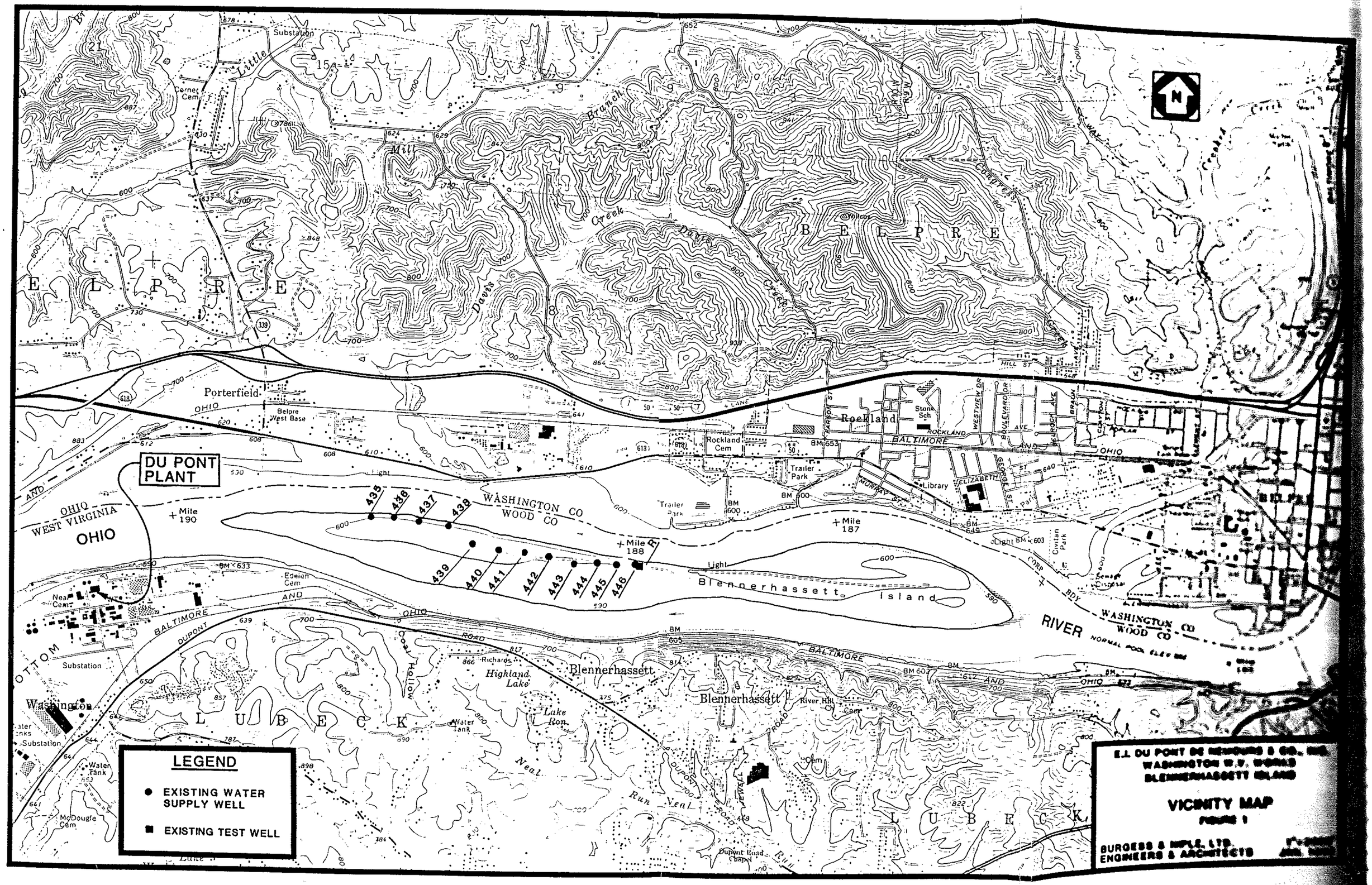
MOTOR

Make Byron Jackson Volts 2300 Phase 3 H.P. 125
Frame — Model — Type 4 pole Cycle 60 Amperes 30 F.L.
R.P.M. 1760 Form _____ Serial 14-5231-4-1
Miscellaneous Information — Procedure or occurrences out of the ordinary.

(1) All measurements Top of Casing
(2) Well is in pit, Top of Casing to Top of Pit = +7.7'
(3) For overall setting (Bottom of Motor) add 10.4'
(4) Ohm reading motor (at surface) wdg 1.6 ohms all phases insul infinity " " Larry Howdor, Bill Knight, + Don Miller P.O.

List Necessary Material i.e. acids, well cleaning compounds, pump repair parts, etc., on the reverse side.
In well wdg. 1.6 ohms all phases insul 8 million " " "

Work Performed by



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LEGEND
EXISTING WATER SUPPLY WELL
EXISTING TEST WELL
Porterfield
Belpre West Base
Rockland
Rockland Cem
Trailer Park
Library
Stone Sch
Blennerhassett Island
Blennerhassett
Highland Lake
Lake Ron
Washington
Substation
Water Tank
McDougle Cem
Edelen Cem
Near Cem
Corner Cem
Mill Branch
Davis Creek
Little
Congress
Neal Run
Coal Hollow
Dupont Road Chapel
WASHINGTON CO
WOOD CO
OHIO
WEST VIRGINIA
BALTIMORE AND OHIO
RIVER
NORMAL POOL ELEV
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GEOLOGIC HISTORY OF THE LOWER TERRACES AND FLOODPLAINS OF THE UPPER OHIO RIVER VALLEY

Thesis

Submitted to the College of Arts and Sciences

of

West Virginia University

in Partial Fulfillment of the Requirements for the

Degree of Master of Science

by

Claudette M. Simard

Morgantown

West Virginia

1989

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P.O. BOX 879, MORGANTOWN, WV 26507-0879
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ABSTRACT

Eight Post-Illinoian (?) fluvial surfaces occur in the upper Ohio River Valley of northwestern West Virginia. Three of the surfaces (S0, S1, and S2) are on the Ohio River floodplain, and the other five (S3, S4, S5, S6, and S7) are terraces that were within 40 m (130 ft) above low water level (a.l.w.) before river level was raised by a series of man-made dams. Height of the surfaces a.l.w. decreases downstream with increasing distance from outwash sources in Ohio and Pennsylvania. Terrace surfaces S5, S4, and S3 rise upstream from the mouth of the Muskingum River probably because of Muskingum River outwash. The upper floodplain, S2, initially decreases in relative height before leveling to a constant elevation a.l.w., whereas floodplains S1 and S0 maintain the same elevation a.l.w. throughout the study area. Soils are more intensely weathered with increasing height of the surfaces a.l.w. and increasing age.

The thick, fining-upward deposits underlying each surface consist of a combination of five facies that commonly overlap and interbed. Coarse-grained Ohio River alluvium is the coarsest and most dominant facies; it is composed of well-rounded to rounded gravels, mostly sandstone clasts, with about 5% Canadian Shield erratics, and sand. Much of the sediment in this facies was introduced into the Ohio River as outwash from the Laurentide Ice Sheet. Finer-grained tributary alluvium forms local lenses of predominantly flat, subrounded, sandstone gravel, and some

shale gravel. More sand and silt is present than in coarse-grained Ohio River alluvium. Colluvium, composed of angular sandstone clasts with more shale clasts and silt and clay than any other facies, interfingers with alluvium at the valley walls. Fine-grained Ohio River alluvium, composed of overbank silt, sand, and clay, caps the coarse deposits. Discontinous mantles of sand and silt probably represent an eolian facies.

Five radiocarbon dates were used to date S7, S4, and S2. Surfaces without radiocarbon control were dated by the relative means of tracing surfaces upstream to early-and late-Wisconsinan tills, by degree of soil development, and by morphostratigraphy. The data indicate floodplains S0, S1, and S2 are Holocene in age, terraces S3 and S4 are late Wisconsinan, and terraces S5 and S6 are early Wisconsinan. Terraces S7, at the same elevation as a segment of S5, is believed to be older than S5 (possibly Sangamonian) because it is more weathered and underlain by a higher, and therefore earlier, bedrock floor. Two relatively young radiocarbon dates show that surfaces downstream from the mouth of the Muskingum River may not correlate with those upstream on the Ohio River.

The complex set of terraces and floodplains formed during glacial advances and retreats of the pre-Wisconsinan, early- and late-Wisconsinan, successive phases of alluvial fills, and incision into the alluvium. The valley is now filled with a set of nested terraces.

ACKNOWLEDGEMENTS

I'd like to acknowledge everyone who made this thesis possible. First, thank you Dr. Robert B. Erwin and Dewey Kirstein for permission and support in expanding a West Virginia Geological and Economic Survey project into a thesis. Next, thank you Steve Kite for all of your knowledge, guidance, support, and nudging along the way. Also, thank you Bob Behling for your pertinent questions and constructive criticism.

I could not have completed this thesis without the special expertise and assistance of many people. Thank you Hobe King for all of your assistance with field work. I also appreciated field assistance, suggestions, and interest in my research from Frank Fonner, Rob Jacobson, and Mike Jordan. Thanks are also extended to Claude Mara for showing me the soils in Wetzel, Tyler, and Pleasants Counties, to Jeff Graybill for helping me with the archeology files and connecting me with people drilling on the floodplains, to Jim Smith for taking the time to show me Blennerhassett Island deposits, and to E.I. Du Pont De Nemours, Inc. for funding the wood radiocarbon date.

Analysis of the samples was smoothed by the groundwork laid by others. I extend many thanks to Allison Bell for setting up laboratory guidelines and grain-size analysis procedures. Lab assistance from Jeff Davis and Kathy Schleiff were greatly appreciated. Thanks to Tom Rymer's

excellent computer programs, analysis of the data was much easier.

Many thanks to the West Virginia Geological Survey staff for technical support in publishing this thesis. I want to especially thank Janice Bloniarz for all of her patience, diligence, and good cheer while she typed the last stages of this thesis. Also, thank you Betty Schleger and Nora Simcoe for typing the initial drafts. Illustrations by Dan Barker and Ray Strawser are always beautiful!

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CHAPTER 1

INTRODUCTION

STATEMENT OF PROBLEM

The lower terraces and floodplains of the upper Ohio River Valley are an important asset to West Virginia. These surfaces, occur at several levels within 40 m (130 ft) above low water level (a.l.w.) before river level was raised by a series of man-made dams. The Wisconsinan terraces and Holocene floodplains (Carlston, 1962) are wide, relatively unweathered surfaces that occur along the length of the Ohio River. In contrast, terraces greater than 40 m (130 ft) a.l.w. are narrow, weathered, scattered remnants. These upper terraces, attributed to pre-Wisconsinan glaciations (Jacobson and others, 1988), are not economically important in West Virginia and therefore are beyond the focus of this report.

The lower terraces and floodplains are important to past and present human occupation in West Virginia. Their wide, flat geometry, and location next to the Ohio River (a major water supply and transportation route) provided excellent building sites for Native American inhabitants as well as for present-day communities and industries. Underlying the surfaces are thick outwash deposits of excellent quality sand and gravel for the construction industry. This

unconsolidated sand and gravel is also an important source of groundwater for human consumption and industrial use.

Literature on the geologic history, character of the deposits, and environment of deposition for the Wisconsinan and Holocene surfaces is as limited in the upper Ohio River Valley as it is in most of West Virginia. Identifying the stratigraphy, lithology, location, and extent of the floodplains and terraces would be an important contribution to the state. A study of the outwash deposits beyond the mid-continental ice margins would broaden the information known about late Pleistocene geology in West Virginia. Knowledge of the influence of geologic history on the deposits would assist in their use as a resource for the construction industry. Also, a geologic time frame for formation of the surfaces would help archeologists in their study of early human occupation in the Ohio River Valley. Therefore, the purpose of this investigation is two-fold: (1) to more completely document the character of the lower terraces and floodplains of the upper Ohio River along the northwestern border of West Virginia, and (2) to reconstruct the late Pleistocene geologic history of the lower terraces and floodplains of the upper Ohio River Valley in West Virginia.

OBJECTIVES

The objectives of this research were to achieve the following:

1) To categorize the lower (below 40 m or 130 ft a.l.w.) Ohio River terrace and floodplain deposits by their sediment and soil attributes.
2) To determine lithology of the gravels of the terraces.
3) To develop a model of the stratigraphy of the lower alluvial terraces and floodplains of the upper Ohio River Valley along the northwestern border of West Virginia.
4) To correlate the lower fluvial surfaces along the upper Ohio River Valley in parts of Pennsylvania, West Virginia, and Ohio.
5) To use the stratigraphic model to reconstruct the geologic history of the lower alluvial terraces and floodplains of the upper Ohio River Valley.

STUDY AREA

The study area was extended into parts of Ohio and Pennsylvania to aid in correlating surfaces in West Virginia. The 266 km (165 mile) study area includes two reaches of the Ohio River and limited reaches of three glaciated tributaries (Beaver River, Little Beaver Creek, and Muskingum River). The two reaches of the Ohio River include the following: (1)

from the mouth of Beaver River, Pennsylvania (river km 40, mile 25) downstream to the south end of Wetzel County, West Virginia, at Paden City (river km 213, mile 132), and (2) from the northern end of Wood County, West Virginia (river km 266, mile 165) to Washington Bottom (river km 316, mile 196), see figure 1. The reaches of the three glaciated tributaries in the study area include: (1) the 10 km (6 miles) of Beaver River upriver from its mouth, (2) the 18 km (11 miles) of Little Beaver Creek upriver from its mouth to the Titusville and Kent Tills in the Grand River sublobe, and (3) the 16 km (10 miles) of Muskingum River upriver from its mouth. The field area is limited to the reconnoitered and sampled reaches of the Ohio River Valley in West Virginia and adjacent parts of Ohio. The field area includes the Ohio River Valley along West Virginia's northern panhandle (Hancock, Brooke, Ohio, and Marshall Counties) and Wetzel County, from Chester (river km 64, mile 40) to New Martinsville (river km 208, mile 129).

The entire length of the study area is in the Unglaciated Appalachian Plateau. The Ohio River and its tributaries are entrenched in lower Permian and Pennsylvanian age sedimentary rock units throughout the study area. These units consist of cyclothems of interbedded sandstones, siltstones, clays, shales, marine and freshwater limestones, marly shales, and coals. Crystalline rock found on the

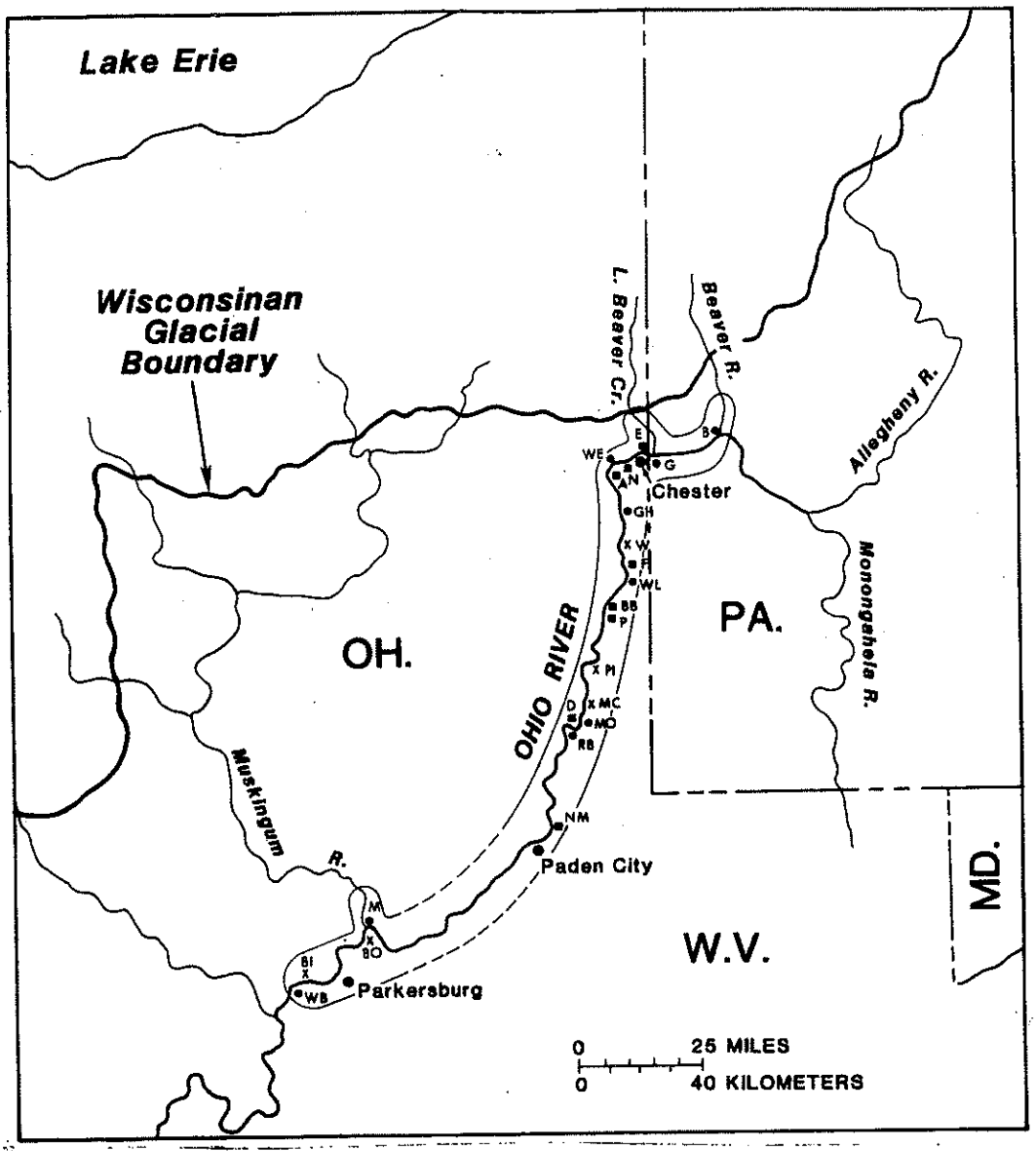

Figure 1. Location map. This map shows the study area (dashed line denotes portions not studied in the field), the Wisconsinan glacial boundary, and sites mentioned in the text. Sample sites (solid blocks) include the following: E = East End, N = Newell 1 and 2, A = Arroyo, F = Follansbee, BB = Beech Bottom, P = Power, D = Dilles Bottom, and NM = New Martinsville. Sites of radiocarbon dates (x) include: W = Weirton, PI = Pike Island, MC = McMechen, BO = Boaz, and BI = Blennerhassett Island. Other localities mentioned (solid circle) include: B = Beaver, G = Georgetown, WE = Wellsville, GH = Globe Hill, WL = Wellsburg, MO = Moundsville, RB = Round Bottom, M = Marietta, and WB = Washington Bottom.

Canadian Shield crop out about 403 km (250 miles) north of the study area (Douglas, 1968).

Topography in the study area consists of gently rolling uplands with mature drainage over much of the terrain. Along West Virginia's northern panhandle, the relief from the river to surrounding uplands is up to 274 m (900 ft). In Wood County, the relief is about 92 m (300 ft).

Floodplains and terraces are best developed inside meander bends but are discontinuous along the Ohio River's length. Maximum width of the upper Ohio River Valley is 1.1 km (0.7 mile) at Chester, gradually increasing to 1.9 km (1.2 miles) at Parkersburg. The present gradient of the river is 2 m per km or 0.5 ft per mile.

CHAPTER 2

PREVIOUS WORKS

GLACIAL HISTORY

Much of classical North American terminology for Pleistocene glacial deposits in the mid-continent may no longer be valid but is included here to aid the reader with interpreting referenced works. The Ohio and Pennsylvania tills have not been shown to be equivalent to type localities in the mid-continent, therefore, the validity of extending these time-stratigraphic units to the Ohio River Valley is questionable. Radiocarbon dates on glacial and interglacial stages used in the text are from recent correlations of continental glaciers from Indiana to New York and New Jersey (Fullerton, 1986).

Glacial history north of the study area is important to the formation of the Ohio River terraces. Pre-Wisconsinan glaciers changed the northward flowing streams in the upper Ohio River Basin to their present southerly direction. Later, Wisconsinan glaciers contributed large volumes of outwash to the Ohio River and its glaciated tributaries, forming the terraces and floodplains analyzed in this study.

Early research focused on the complex history of the Ohio River and the terrace levels attributed to the Pleistocene glacial and interglacial stages. Prior to the Illinoian glaciation, the ancestral Ohio River basin was

drained by two small tributaries flowing in opposite directions from a drainage divide near New Martinsville (Leverett, 1902; 1939; Stout and Lamb, 1938; Stout and others, 1943; Tight, 1903; White, 1896). Each of these rivers generally followed the path of the present Ohio River Valley through the study area. The ancestral Steubenville River flowed north to the ancient Pittsburgh River of the Erie Basin at Beaver, Pennsylvania (fig. 1); the ancestral Marietta River flowed south to the Teays River system of the Mississippi Basin (Stout and others, 1938). According to Leverett (1902; 1939), Stout and Lamb (1938), Stout and others (1943), Tight (1903), Cross and Schemel (1956), and White (1896), at least two pre-Wisconsinan glaciations dammed the north-flowing river just north of Beaver, Pennsylvania. Highly weathered terraces (higher than those in the study area--see Appendix I) at greater than 106 m (349 ft) a.l.w. at East End (suburb of East Liverpool) and Wellsville, Ohio contain crystalline rocks (cobbles, and gravels) attributed to outwash from one or more pre-Illinoian glaciations (Lessig, 1961a). The presence of less-weathered Illinoian gravel in terraces at 71 m (230 ft) a.l.w. at East End (Lessig, 1959a) descending to approximately 54 m (175 ft) a.l.w. by Parkersburg (Jacobson, 1985; 1988--see Appendix I), indicate that the drainage divide at New Martinsville was breached before the Illinoian glaciation. The Ohio River roughly followed its present path at this time.

During the Wisconsinan, the Ontario-Erie lobe of the Laurentide Ice Sheet advanced southwestward into the Erie Basin (Fullerton, 1986). The Grand River sublobe spread over the Allegheny Plateau of northwestern Pennsylvania and northeastern Ohio during both the early (Altonian) and late (Woodfordian) substages (fig. 2) of the Wisconsinan Glaciation (White, 1982; White and Totten, 1985). The Killbuck sublobe (and later during the Woodfordian, the Cuyahoga sublobe) covered north-central Ohio (White, 1982), and the Scioto sublobe covered central Ohio (Goldthwait and others, 1961) at this time.

From approximately 79,000 to 65,000 yr. B.P. (Fullerton, 1986), the late Wisconsinan advance deposited the Titusville Till (Table I). The Titusville Till of the Grand River sublobe was deposited 13 km (8 miles) from the West Virginia border on Little Beaver Creek in Ohio, (White, 1982) and 48 km (30 miles) from the West Virginia border on Beaver River in Pennsylvania (figure 2; Shepps and others, 1959). Titusville Till was deposited by the Grand River sublobe at least 260 km (160 miles) from the mouth of the Muskingum River but its correlative till units were deposited by the Scioto sublobe as close as 129 km (80 miles) from the mouth of the Muskingum River (Goldthwait and others, 1961).

After an approximately 42,000 year interglacial stage (fig. 3), correlated with the Farmdalian by White (1982), the Grand River sublobe readvanced during the late Wisconsinan.

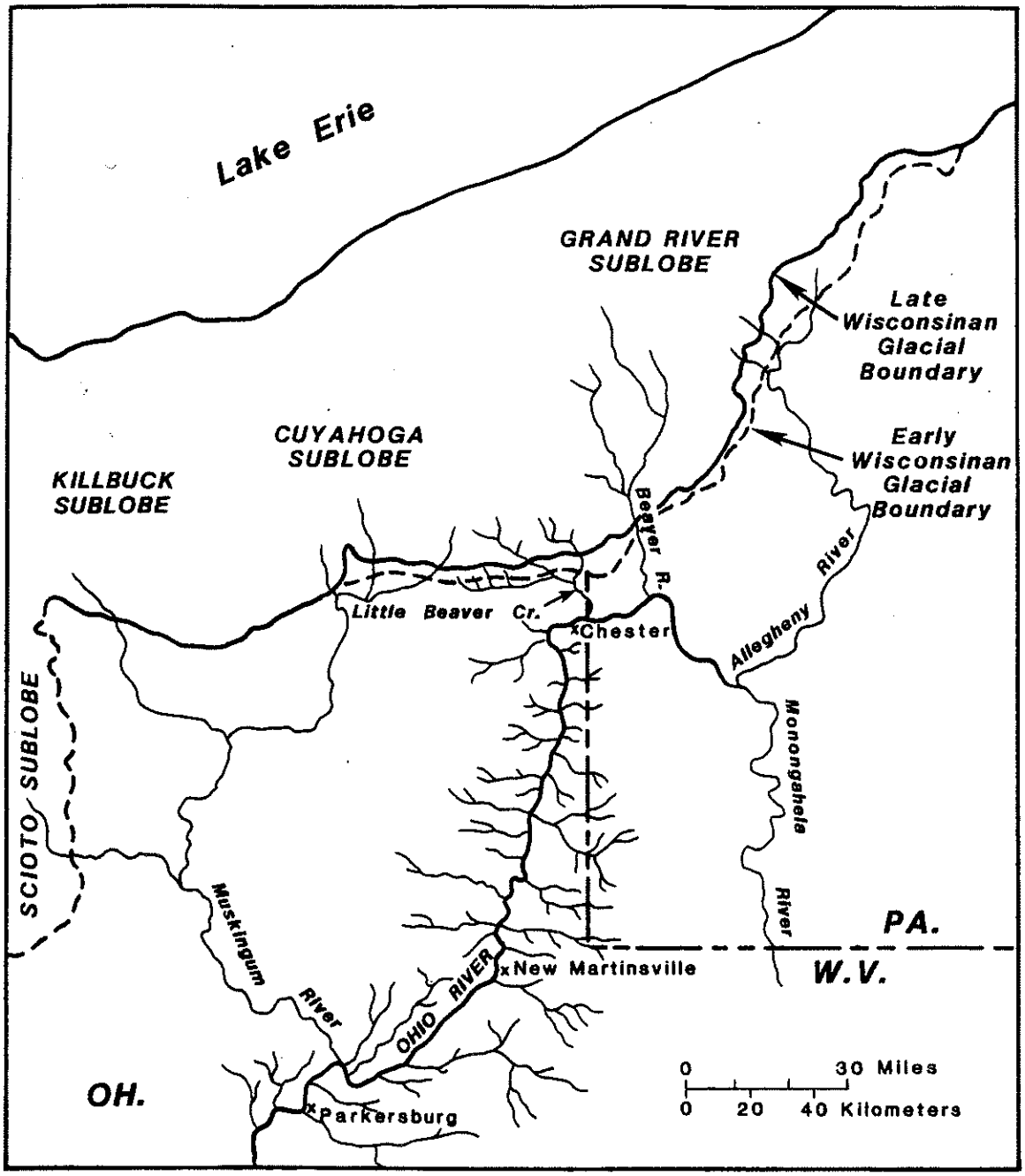

Figure 2. Glacial sublobes. Maximum extent of glacial sublobes during the early Wisconsinan (Altonian) advance and the late Wisconsinan (Woodfordian) advance (adapted from White, 1982, plate 1; Goldthwait and others, 1961; and Pennsylvania Geological Survey, no date).

TABLE I: TIME-CHART OF PLEISTOCENE AND HOLOCENE EPOCHS

EPOCH	GLACIAL AND INTERGLACIAL STAGES	TIME SCALE (yr. B.P.) *
HOLOCENE		Present 10,000
PLEISTOCENE	Late Wisconsinan	35,000
	Farmdalian	65,000
	Early Wisconsinan	79,000
	Sangamonian	132,000
	Illinoian	302,000
	Pre-Illinoian	1.6 m.**

* Dates from Fullerton (1986)
** m. = million

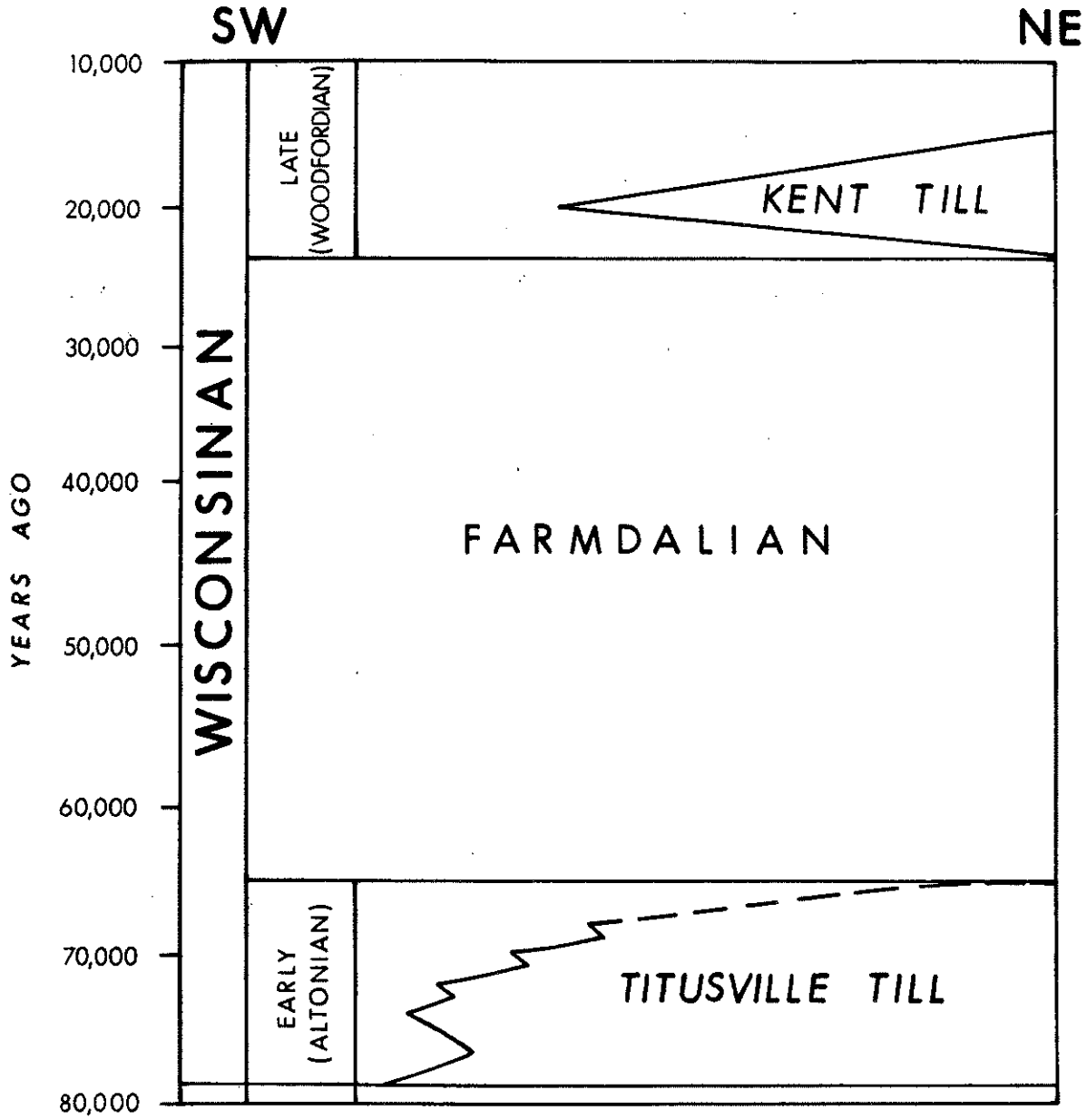

Figure 3. Time scale of Wisconsinan tills of the Grand River sublobe. Thickness of till wedges indicate relative time duration (after White, 1982; dates from Fullerton, 1986).

A thin veneer of Kent Till (dated to range from 23,000 to 16,000 yr. B.P. by Fullerton, 1986) was deposited over the Titusville Till (White, 1982). The Kent advance, not as extensive as the Titusville advance, deposited till within 19 km (12 miles) of West Virginia, figure 2 (White, 1982). Equivalents to the Kent Till were deposited near the early Wisconsinan drift border in the Cuyahoga, Killbuck and Scioto sublobes (White 1982; Goldthwait and others, 1961).

During Altonian and Woodfordian events, the Upper Ohio River system served as an outlet for large volumes of water and sand and gravel outwash transported from as far north as the Canadian Shield, at least 400 km (250 miles) distant. Outwash deposits aggraded in the valley of the Ohio River and its northern tributaries. At least 45 m (147.5 ft) of sand and gravel was deposited at Georgetown, Pennsylvania, at the mouth of Little Beaver Creek. The Allegheny River (64 km, 40 miles, upstream of the West Virginia border), Beaver River (24 km, 15 miles, upstream of the border), and Little Beaver Creek (at the border), drained the Grand River sublobe. All four sublobes were drained by the Muskingum River (fig. 2). The Muskingum River drains into the Ohio River 213 km (132 miles) downstream from Little Beaver Creek, at Marietta, Ohio.

TERRACE CORRELATIONS

Previous correlation of the early-and late-Wisconsinan outwash terraces of the Ohio River and its glaciated tributaries are limited. Terraces have been correlated in Beaver County, Pennsylvania and adjacent Columbiana County, Ohio. Lessig (1959b; 1961a; 1961b) distinguished Illinoian and Wisconsinan outwash terraces of Little Beaver Creek and its tributaries based on degree of soil development, depth of carbonate leaching, and base saturation of the B horizon. No radiocarbon control was available for the terraces at that time. By tracing the terraces of Little Beaver Creek from its mouth to the till margins, Lessig (1961a; 1961b) correlated the Ohio River terraces of 226 m (740 ft) a.s.l. (31 m or 100 ft a.l.w.) at East End, Ohio and 232 m (760 ft) a.s.l. (37 m or 120 ft a.l.w.) at Georgetown, Pennsylvania to the Illinoian (Titusville) Till, and the 213 m (700 ft) a.s.l. (18 m or 60 ft a.l.w.) terraces at East End to the Wisconsinan (Kent) Till. White and Totten (1965), later reassigned the Titusville Till to the early Wisconsinan and the Kent Till to the late Wisconsinan glaciations. White (1982) correlated terraces at 226 m (740 ft) a.s.l. (18 m or 60 ft a.l.w.) at East End, Newell, and Waterford Park (Arroyo) to the Titusville Till. White and Totten (1985) continued the Ohio River terrace correlation further downstream to include all of Columbiana County, Ohio (fig. 4) and some adjacent parts of West Virginia. Later, Jacobson

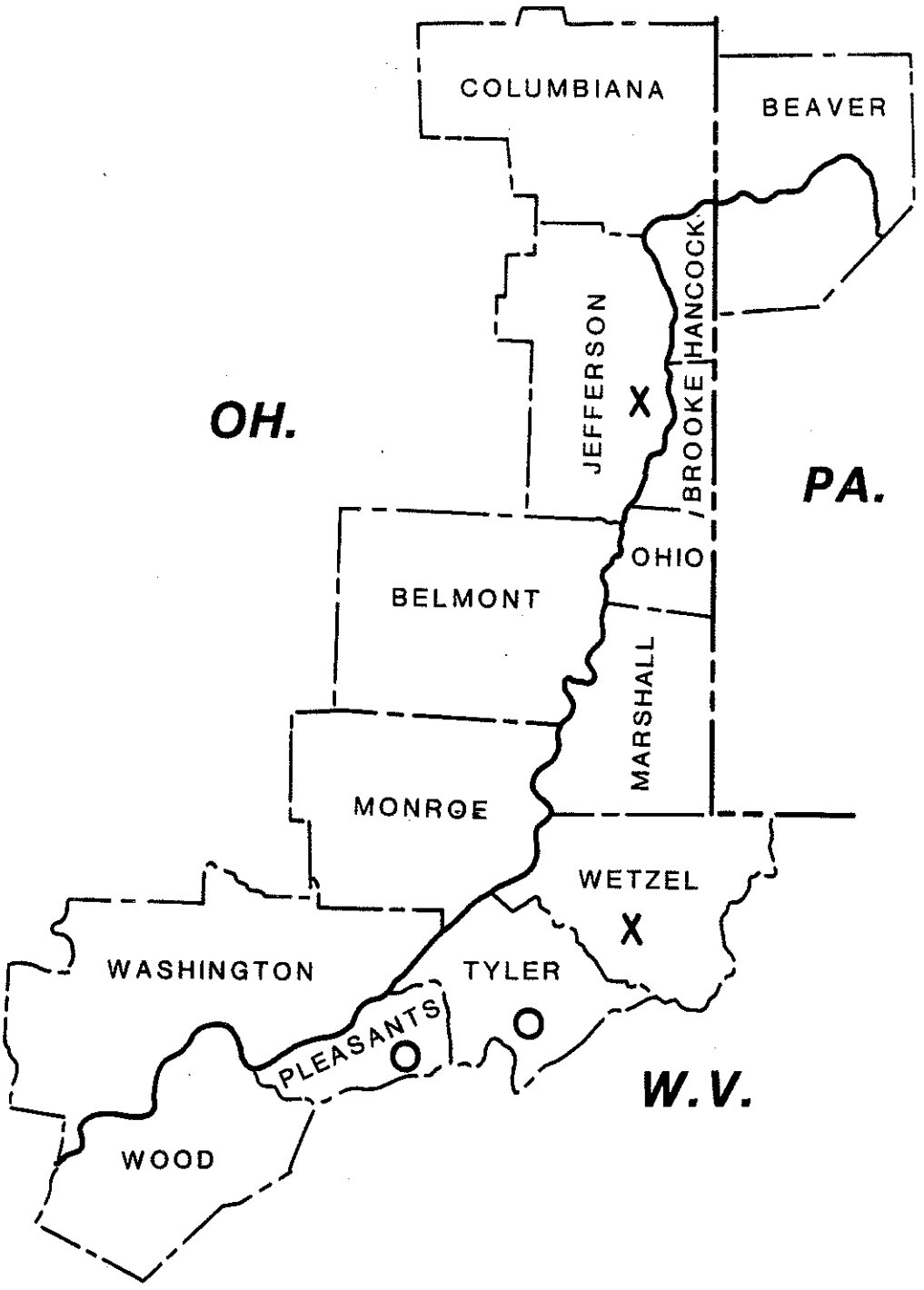

Figure 4. Modern U.S. Department of Agriculture Soil Conservation Service County Soil Surveys (as of 1988) used for soil series names in the study area. X = soil maps in progress in the study area (as of 1988), O = soil maps in progress not in the study area.

(1985) correlated the Woodfordian through the pre-Illinoian Ohio River surfaces upstream of Middle Island Creek (river km 245, mile 152) based on his study of soils along Middle Island Creek, Lessig's research, and U.S. Department of Agriculture (U.S.D.A.) Soil Conservation Service county soil surveys. Jacobson (1988) later continued these correlations downstream to Parkersburg, Appendix I. In the author's preliminary correlation of the Ohio River surfaces along West Virginia's northern panhandle, the eight surfaces of this study were combined as one terrace and one floodplain (Simard and Kite, 1986). The author later segregated these two surfaces into two terraces and one floodplain (Simard, 1987; Simard and Kite, 1987).

Farther south, in Wood County, Fonner (1980) described the soils and stratigraphy of Blennerhassett Island deposits and assigned them relative dates. Later, Fonner (1982) described the stratigraphy of a sand and gravel pit in Boaz, West Virginia (fig. 1) where a mammoth bone dated as 13,510 $\pm$ 270 yr. B.P. (SI-5480) was found.

Previous work on the Muskingum River is limited. Hubbard (1954) used degree of weathering to interpret sand and gravel terraces located 53 to 76 river km (33 to 47 miles) north of the mouth of the Muskingum River as Wisconsinan in age. Root and others (1961) correlated three terraces within the till boundaries at several of the headwaters of the Muskingum River (at least 90 km or 56

miles from its mouth) as Illinoian, early Wisconsinan, and late Wisconsinan. White (1982) later changed the correlation of the so-called Illinoian Till of the northern part of the Scioto sublobe to early Wisconsinan. Otherwise, terraces on the Muskingum River have not been correlated or dated.

In summary, published works indicate that early- and late-Wisconsinan glaciations in Pennsylvania and Ohio created the terraces of the Ohio River. Glacial meltwater drained through Allegheny River, Beaver River, Little Beaver Creek, and Muskingum River to the Ohio River. The degree of weathering of the deposits and development of soils has been used to correlate terraces to the early-and late-Wisconsinan glacial advances. However, these studies lack good radiocarbon dating control.

CHAPTER 3

METHODOLOGY

FIELD METHODS

This thesis grew out of a West Virginia Geological and Economic Survey project to determine West Virginia's land-based Ohio River sand and gravel resource potential for the construction industry. The lower (below 40 m or 130 ft a.l.w.) terraces and floodplains rather than the higher (above 40 m or 130 ft a.l.w.) terraces were examined during the project because their larger size and relatively unweathered deposits make them an excellent sand and gravel resource for the construction industry. The project included taking bulk samples at terrace sites, testing samples for suitability as highway aggregate (run by West Virginia Department of Highways, Charleston), mapping landform surfaces, plotting core hole and well locations, recording stratigraphy on modified strip logs, and calculating inferred resources. A West Virginia Geological and Economic Survey Report will include all of this information plus a summary of the affect of geologic history on the resource potential of the deposits, based on information from this thesis (Simard, in preparation). This thesis is a more detailed study of the stratigraphy, the facies of the deposits, and the geologic history of the surfaces. To more completely correlate the surfaces in West

Virginia, the study area was extended to Wisconsinan tills in Ohio (upstream on Little Beaver Creek), to the reach of Muskingum River near its mouth (in Ohio), and to the reach of Beaver River near its mouth (in Pennsylvania).

Field work began in the summer of 1985 and ended in the fall of 1986. The location of terrace scarps and flats, and bedrock contacts were recorded while reconnoitering the area. Terrace deposits were examined at high walls in sand and gravel pits, at small, hand dug exposures, or with a 1 m (3 ft) by 2.5 cm (1 inch) soil auger (see Appendix II for locations). The location and extent of outwash, overbank alluvium, tributary alluvium, eolian, and colluvium deposits were recorded on U.S.G.S. 7.5-minute quadrangle field maps. Deposits at borrow pits and abandoned or active sand and gravel pits were examined in more detail and sampled for analysis. The pits are located on terraces because sand and gravel deposits are thicker there than on the floodplains and therefore, more economically important. Eight of the 11 sample localities were on terrace S5 (the sixth surface above the river), one was on terrace S7 (at the same level as a segment of S5), and the other two were on terrace S4 (the fifth surface above the river).

Channel samples were taken from a cleaned pit face every 1.5 m (5 ft) or at each change in stratigraphy for sand and gravel according to Boellstorff's (1978) scheme, and within each horizon for soils. One continuous, vertical sand and

gravel sample was seldom taken at a sample site due to steepness (and instability) of pit faces or scree piles too large to be removed by a hand shovel. To work around these problems, samples were taken in offset vertical segments. The sampling process began at the best-exposed pit face at the top of the deposit. The pit face was sampled from the top downward until a scree pile too large to be removed was reached or the face was too steep for safety or accessibility. The height at the bottom of this sampled segment was traced, by leveling or following a marker bed, to the top of a lower, well-exposed pit face. This, and subsequent lower pit faces, were sampled in the same fashion until a vertical composite sample of the site was complete.

Coarse-grained soils were described by using standard American Society for Testing and Materials (1966) methods for description of soils. Each coarse-grained sample description included: depth, sediment name by main particle size constituent, sorting, maximum particle size, size distribution in estimated percentages, grain shape, mineralogy, moist Munsell color (Kollmorgen Corporation, 1975), estimated moisture content, natural density, structure, reaction to 5% dilute HCL, and environment of deposition. Fine-grained soils were described using Soil Survey Staff (1951) standard methods. Each fine-grained sample description included horizon name, depth, moist Munsell color (Kollmorgen Corporation, 1975), texture,

structure, consistency, presence and description of clay films, mottling, and boundary.

CORRELATION METHODS

Field and published information were combined to correlate different surfaces. Eight correlated surfaces were numbered S0 through S7. Floodplain and terrace surfaces were mapped on the most recent (1980 through 1986) 7.5-minute series U.S.G.S. quadrangle maps (see Appendix III) by morphology, lithology, stratigraphy, degree of soil development, and frequency of flooding. The maps had 20 ft contour intervals with some supplemental 10 ft contours. A longitudinal profile of the surfaces (fig. 5) was constructed by plotting the following: elevation and longitudinal extent of the most prevalent surface of each level on both sides of the river and the islands, maximum flood of record (Grover, 1938; Smith and Stratton, 1955), and pre-dam low water river level (U.S. Army Corps of Engineers, 1929a-1929g; 1930a-1930c). The surfaces were correlated on the longitudinal profile by drawing lines to connect surfaces with the same: frequency of flooding, elevation a.l.w. (keeping in mind that progressive downstream change might occur), and soil development.

To aid in correlating surfaces in West Virginia, the longitudinal profile of the Ohio River was extended to the mouth of Beaver River. Longitudinal profiles of the surfaces

were also constructed for a limited distance along glaciated tributaries (figs. 1 and 6). The tributary profiles include: (1) the 10 km (6 miles) upriver from the mouth of Beaver River, (2) the 18 km (11 miles) upriver from the mouth of Little Beaver Creek to the Titusville and Kent Tills in the Grand River sublobe, and (3) the 16 km (10 miles) upriver from the mouth of the Muskingum River.

Along with field information, several different map sources were used for correlating the floodplain and terrace surfaces. The main map source was the topography shown on 7.5-minute series quadrangles. Additionally, U.S.D.A. Soil Conservation Service county soil surveys (see Chapter 4 for listing) provided information of soil development and stratigraphy for the upper 1.8 to 6 m (6 to 20 ft) of sediment. Core logs from early 1900's lock and dam construction (U.S.G.S. unpublished data, Morgantown, West Virginia), water wells (U.S.G.S. unpublished data, Morgantown, West Virginia), oil and gas well logs (West Virginia Geological Survey in-house files), and private companies provided stratigraphic information to the top of bedrock. Also, the 1956 edition of the 7.5-minute series quadrangles in Arkle and others (1967) sand and gravel resource project identify now defunct sand and gravel pits, his sample sites, less disturbed landforms, and 10 ft supplemental contours not found on some of the more recent maps. The 15-minute series maps (1902 to 1942 editions)

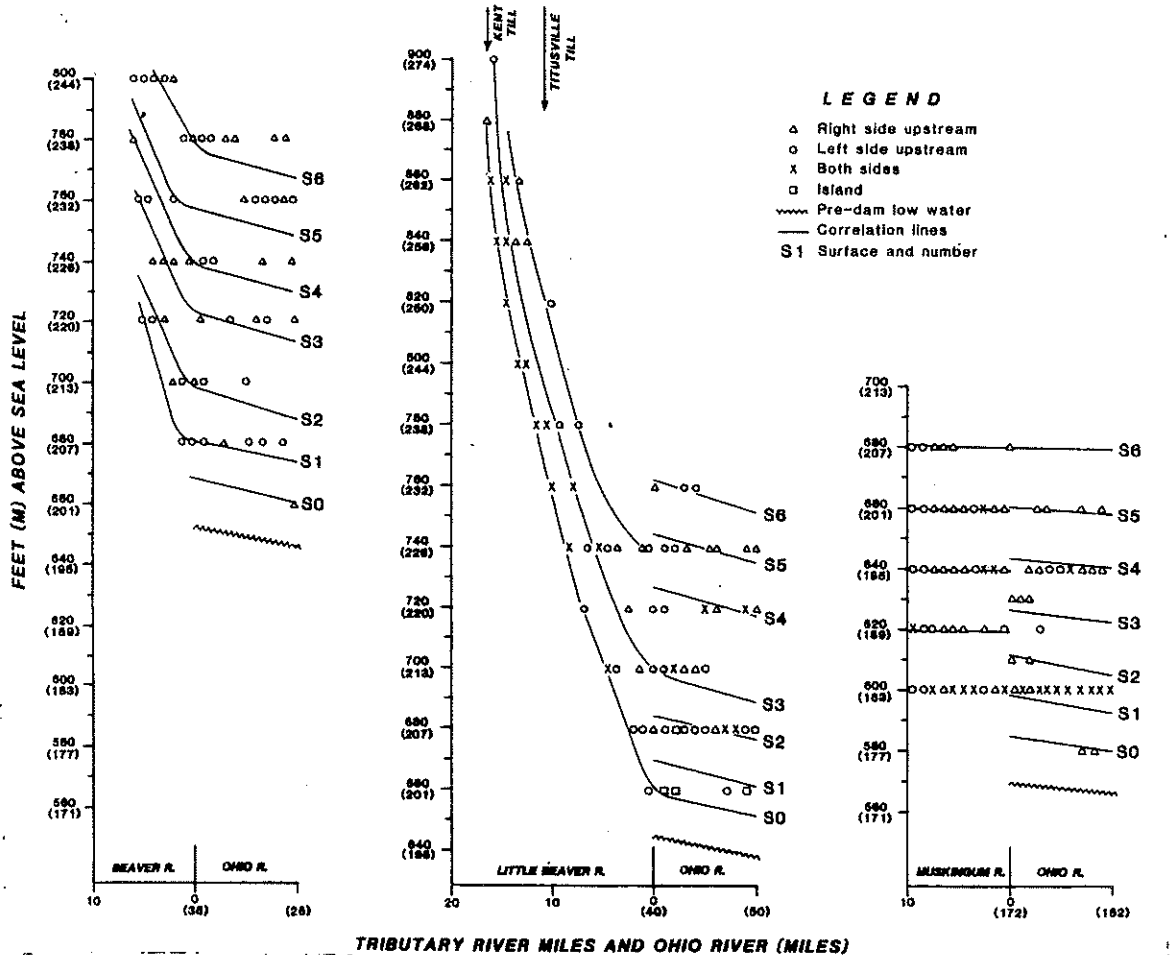

Figure 6. Limited longitudinal profiles of terraces and floodplains of the glaciated tributaries and the Ohio River. S6 and S5 are early Wisconsinan terraces, S4 and S3 are late Wisconsinan terraces, and S2, S1, and S0 are Holocene floodplains.

were consulted for an overview on a smaller scale. Where available, 5 ft contour river channel maps (U.S. Corps of Engineers 1929a-1929g; 1930a-1930c) were used for detailed correlations. These maps included all of the floodplains and some of the lower terraces. Limited use of stereoscopic aerial photographs helped differentiate surfaces not obvious on the other map sources.

LABORATORY METHODS

Samples collected in the field were analyzed in the laboratory to verify field data. Samples from 11 terrace profiles were analyzed to determine soil and sediment characteristics. Particle-size distributions of 85 samples were determined by dry-sieve and pipette methods (Appendix IV). Munsell color (Kollmorgen Corporation, 1975) of wet silt and clay was measured while particles were suspended in a water-filled cylinder during pipette analysis.

Pebble counts of the gravel size common to all sampled coarse deposits, the 12.7 to 6.35 mm (0.5 to 0.25 inch) and 4.00 to 2.00 mm (0.16 to 0.08 inch) size gravels, were done for 20 samples (see Appendix V for results). The lithology of all of the 6.35 mm and about 200 of the 2.00 mm size gravels per sample were counted for a representative sample (Griffiths, 1967). Lithology was identified by hand specimens, which were broken, if necessary, for a fresh surface and examined with a 10 power hand lense. Limestone gravels were identified from efforvescence with the

application of a 5% hydrochloric acid solution. Roundness and sphericity measurements were limited to the 6.35 mm gravels because the 2.00 mm gravels were too small to be categorized by hand specimens. Roundness was estimated by comparing the gravels to a roundness chart from Krumbein (1941) whereas sphericity was estimated from a sphericity chart by Krumbein and Sloss (1963).

Computer programs (Appendix VI) were used to calculate grain-size distributions and statistical moments. The grain-size distributions and statistical moments were generated as data sheets for individual samples. Grain-size distributions were also plotted as grain size versus depth for each site.

CHAPTER 4

LANDFORMS, DEPOSITS, AND RADIOCARBON DATES

LANDFORMS

The landforms of the Ohio River and its glaciated tributaries (Beaver River, Little Beaver Creek, and Muskingum River) were studied in detail for their vertical and downstream changes in stratigraphy, height a.l.w., and soil development. Soil development is emphasized because it is a relative method of dating surfaces with no radiocarbon control. Each surface level, drawn in figures 5, and 6, represents the most extensive levels shown on 7.5-minute topographic maps. The contours on this scale (1:24,000) were mainly at 20 foot intervals with some supplemental 10 foot intervals. A limited number of 1:7,200 scale maps with a 5 foot contour interval were available for some of the floodplains (U.S. Corps of Engineers 1929a-1929g; 1930a-1930c). For the terraces, small segments and surfaces separated by less than 10 feet could not be detected on the 1:24,000 scale. Therefore, more than the eight levels described in this study may exist, but the data limits the precision of the interpretation.

Eight fluvial surfaces have been identified in the two reaches of the upper Ohio River Valley from the mouth of Beaver River, Beaver County, Pennsylvania to Paden City and from the northern end of Wood County, to Washington Bottom,

West Virginia. The levels, designated as S0 through S7, include three floodplains and five terraces, two of which (S5 and S7) occur at the same level (fig. 5). S7 is an older terrace remnant (probably pre-Wisconsinan) which occurs at the same level as a segment of S5 (early Wisconsinan) from the Weirton abandoned channel to Beech Bottom. None of the surfaces are continuous on both sides of the river (fig. 7). Surfaces are denoted by height a.l.w. on figure 8, in order to replicate conditions before water level was artificially raised by dams. The first set of C.O.E. dams, built in the early 1900's, raised normal pool water level on the Ohio River approximately 1 m (3.3 ft) to 6 m (19 ft). These dams have been replaced by fewer but larger dams that raised normal-pool water level 2.4 to 10.4 m (8 to 34 ft) a.l.w. In places, the raised water levels cover S0 and S1 surfaces (fig. 5).

U.S.D.A. Soil Conservation Service county soil survey reports used for soil series names, soil distribution, and the upper 1.8 to 6 m (6 to 20 ft) of stratigraphy include the following (from north to south): Beaver and Lawrence Counties, Pennsylvania (Smith, R. V., 1982); Columbiana County, Ohio (Lessig and others, 1968); Ohio, Brooke, Hancock Counties, West Virginia (Ellyson and others, 1974); Belmont County, Ohio (Rubel and others, 1981); Marshall County, West Virginia (Kunkle and others, 1960); Monroe County, Ohio (Hayhurst and others, 1974); Wetzel County, West Virginia

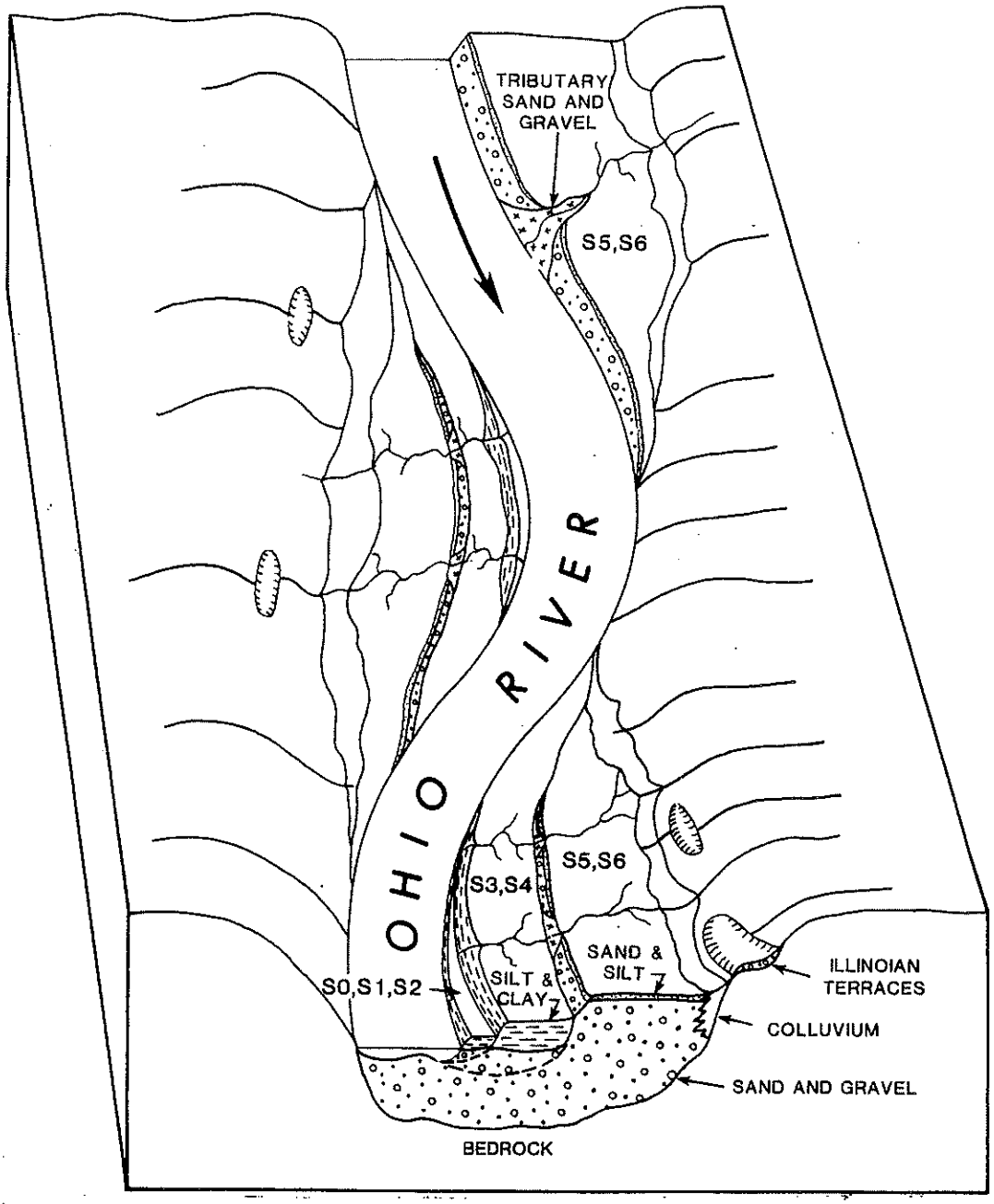

Figure 7. Model block diagram (not to scale) of alluvial surfaces and facies of the Ohio River Valley. S5, S6 represent early Wisconsinan terraces, S3, S4 represent late Wisconsinan terraces, and S0, S1, S2 represent Holocene floodplains. The five facies are labeled as: (1) sand and gravel (coarse-grained Ohio River alluvium or outwash), (2) tributary sand and gravel, (3) colluvium, (4) silt and clay (fine-grained Ohio River alluvium or overbank sediment), and (5) sand and silt (eolian).

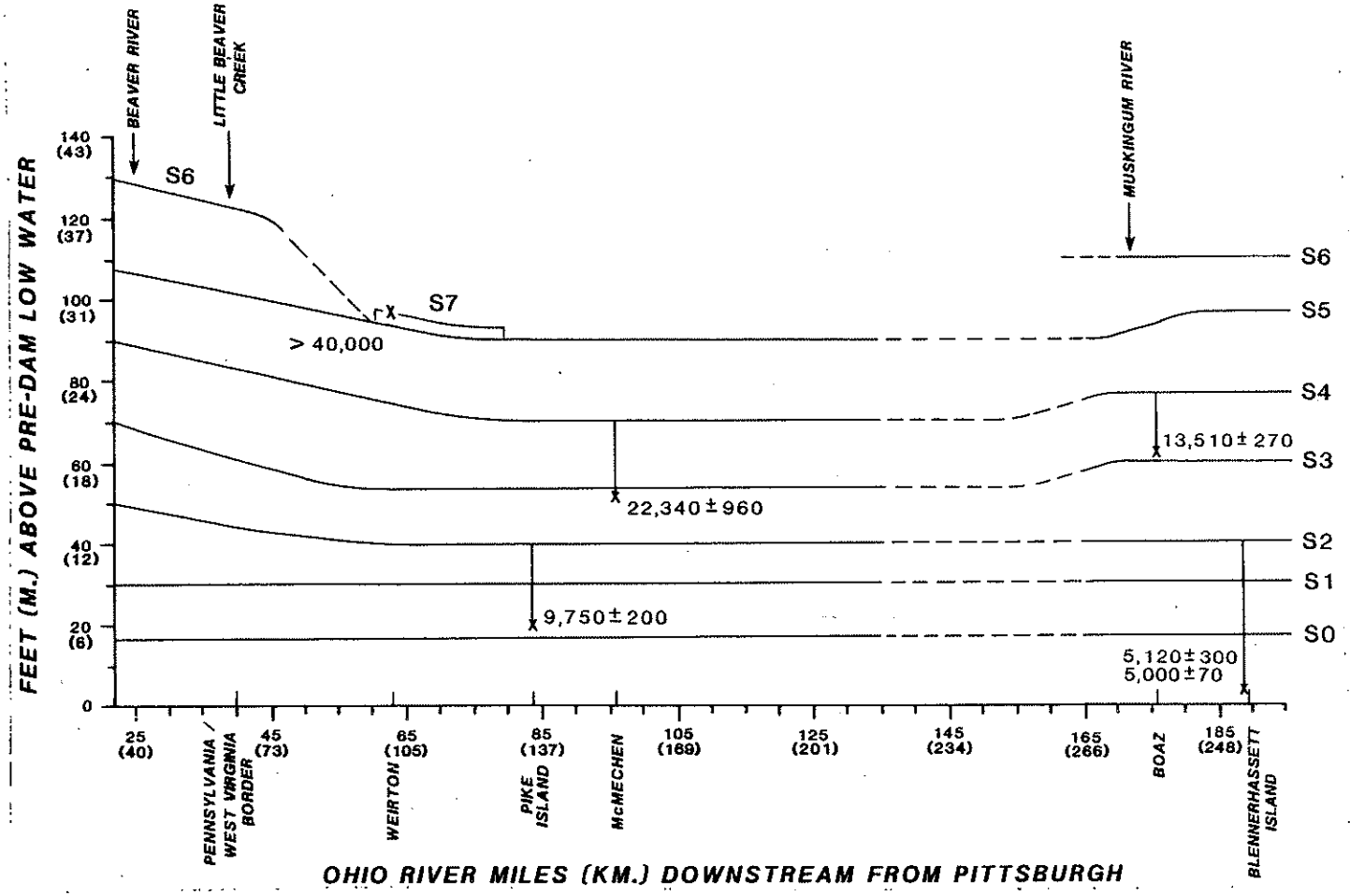

Figure 8. Longitudinal profile and radiocarbon dates of Ohio River Valley surfaces plotted on pre-dam low water base level. Terrace S7 is probably Sangamonian, terraces S6 and S5 are early Wisconsinan, terraces S4 and S3 are late Wisconsinan, and floodplains S2, S1, and S0 are Holocene. Radiocarbon dates plotted (x) at relative depth below surface.

(Mara, in progress); Wood and Wirt Counties, West Virginia (Ellyson and others, 1970) Washington County, Ohio (Lessig and others, 1977). Figure 4 shows county locations and the soil surveys used in this study, and Table II summarizes soil information, and stratigraphy of each surface.

Surfaces S0 through S6 are underlain by a broad, shallow, roughly U-shaped valley (fig. 9), as shown by core logs at Georgetown, Pennsylvania (river km 63, mile 39) and Arroyo (river km 81, mile 50) (I. Maurer, 1988, personal communication--oil and gas well numbers in Appendix II). These core logs provide the most complete valley cross-section used in this study (although proprietary information from engineering firms exists). Cleason Smith (personal communication, 1984) confirmed the broad, U-shape of the valley farther downstream. Anomalies in the channel morphology occur under S5 at Follansbee and S7 at Beech Bottom (fig. 10). The bedrock floor at Follansbee (river km 113, mile 70) forms an approximately 0.5 km (0.3 mile) wide bench at an average elevation of 195 m (640 ft) a.s.l. (see Appendix II for oil and gas well numbers). This elevation is about 21 m (70 ft) higher than the bedrock floor underlying the S0 through S6 channel (represented in figure 10 by S1) 13 km (8 miles) upstream at Weirton (D'Appolonia and others, 1967, fig. 1). The bedrock floor underlying S7 was exposed at Beech Bottom (13 km or 8 miles downstream from Follansbee) at approximately 198 to 201 (650 to 660 ft) a.s.l., as

TABLE II: STRATIGRAPHY AND PRIMARY SOILS OF EACH OHIO RIVER VALLEY SURFACE

SURFACE	THICKNESS IN M (FT) ALLUVIAL SN, SI, CL	ALLUVIAL S & G	EOLIAN SAND OR SILT	SOIL PARENT MATERIAL	STRONGEST B HORIZON	SOIL SERIES	SOIL ORDER	COUNTY (N TO S)
S0	1.1 to 10.4	6.5 to 15.2	-	SN, SI, CL	B	Philo	Inceptisol	BE (P)
S1	(3.6 to 34)	(21.3 to 49.7)	-	"	"	Chagrin	"	CO (0), OH, BR, HN, MN (0)
				"	"	Nolin	"	BL (0)
				"	"	Huntington	Mollisol	MR, MN (0), WO, WA (0)
S2	1.2 to 11.3	8.1 to 21.5	-	S & G	Bt	Conotton	Alfisol	BE (P)
	(4 to 37)	(26.4 to 70.5)	-	"	"	Chili	"	CO (0)
				SN, SI, CL	"	Chavies	"	OH, BR, HN
				"	"	Wheeling var.	"	MN (0)
				"	"	Ashton	"	BL (0), WO, WA (0)
				"	"	Mentor	"	WA
				"	Bx	Sciotoville	"	MO (0), WO
S3	1.0 to 9.8	14.9 to 30.0	1.5 to 3 +	S & G	Bt	Conotton	Alfisol	BE (P)
	(3 to 32)	(49 to 98.5)	(5 to 10 +)	"	"	Chili	"	CO (0)
				SN, SI, CL	"	Wheeling	"	MN (0), WO, WA (0)
				"	"	Mentor	"	WA (0)
				"	Bx	Sciotoville	"	MN (0), WO
				SILT	Bt	Duncannon	"	BL (0)
				SAND	B & C	Lakin	"	WO
S4	1.1 to 6	16.2 to 26.4	3 +	S & G	Bt	Conotton	Alfisol	BE (P), MN (0), WA (0)
	(3.5 to 20)	(53.0 to 86.7)	(10 +)	"	"	Negley	"	CO (0)
				"	"	Chili	"	BE (P), BL (0), WA (0)
				SN, SI, CL	"	Wheeling	"	MR, WO, WA (0)
				"	"	Mentor	"	WA (0)
				"	Bx	Sciotoville	"	MN (0), WO
				SAND	B & C	Lakin	Entisol	MR, WO
				"	B	Sparta	Mollisol	WA (0)

SURFACE	THICKNESS IN M (FT) ALLUVIAL SN, SI, CL	ALLUVIAL S & G	EOLIAN SAND OR SILT	SOIL PARENT MATERIAL	STRONGEST B HORIZON	SOIL SERIES	SOIL ORDER	COUNTY (N TO S)
S5	0.6 to 6 (2 to 20)	11.7 to 33.6 (38.3 to 110.1)	0.7 to 4.6 (2.5 to 15)	S & G " " SN, SI, CL " " SILT SAND	Bt " " " Bx Bt " B & C	Conotton Negley Chili Wheeling Sciotoville Mentor Duncannon Lakin	Alfisol " " " " " " Entisol	BE (P), MO (O) CO (O) BL (O), WA (O) MN (O), MR, WO, WA (O) MN (O), WO WA (O) WO OH, BR, HN
S6	1.0 to 1.5 (3 to 5)	? to 45.0 (? to 147.6)	0.7 to 4.6 (2.5 to 15)	S & G " SN, SI, CL "	Bt " Bx B & C	Conotton Negley Sciotoville Lakin	Alfisol " " Entisol	BE (P) CO (O) WO WO
S7	9.2 (30)	7.3 to 24.4 (24 to 80)	3.4 (11)	SN, SI, CL SILT	? Bx	- -	- -	HN, BR BR

KEY TO HEADINGS: Thickness of sediment from listed County Soil Surveys, core logs, and sample sites (see Appendix II). S7 information from Weirton and Beech Bottom sites (not surveyed in County Soil Surveys). Soil information from County Soil Surveys listed. SN = sand, SI = silt, CL - clay, S & G = sand and gravel (alluvial grain sizes listed in table in arbitrary order). County (N to S) = counties with each soil series listed from north to south. County Codes: BE (P) = Beaver, Pennsylvania; CO (O) = Columbiana, Ohio; BL (O) = Belmont, Ohio; MN (O) = Monroe, Ohio; WA (O) = Washington, Ohio. West Virginia Counties: HN = Hancock; BR = Brooke; OH = Ohio; MR = Marshall; WE = Wetzel; WO = Wood.

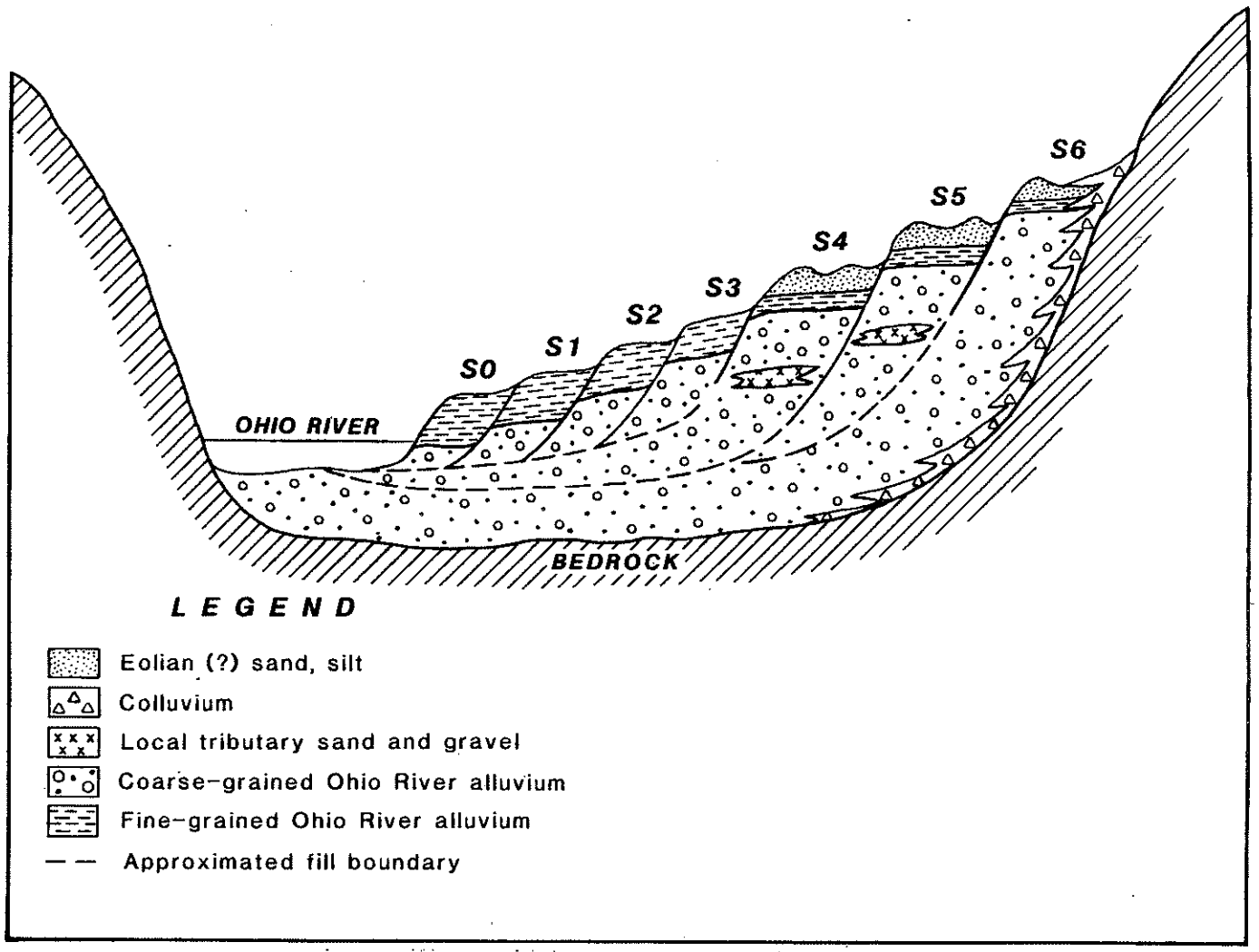

Figure 9. Idealized model cross-section (20 times vertical exaggeration) of Wisconsinan and Holocene surfaces and facies. S6 and S5 are early Wisconsinan, S4 and S3 are late Wisconsinan, S2, S1, and S0 are Holocene. Thickness of deposits shown as averages (from available core logs listed in Appendix II).

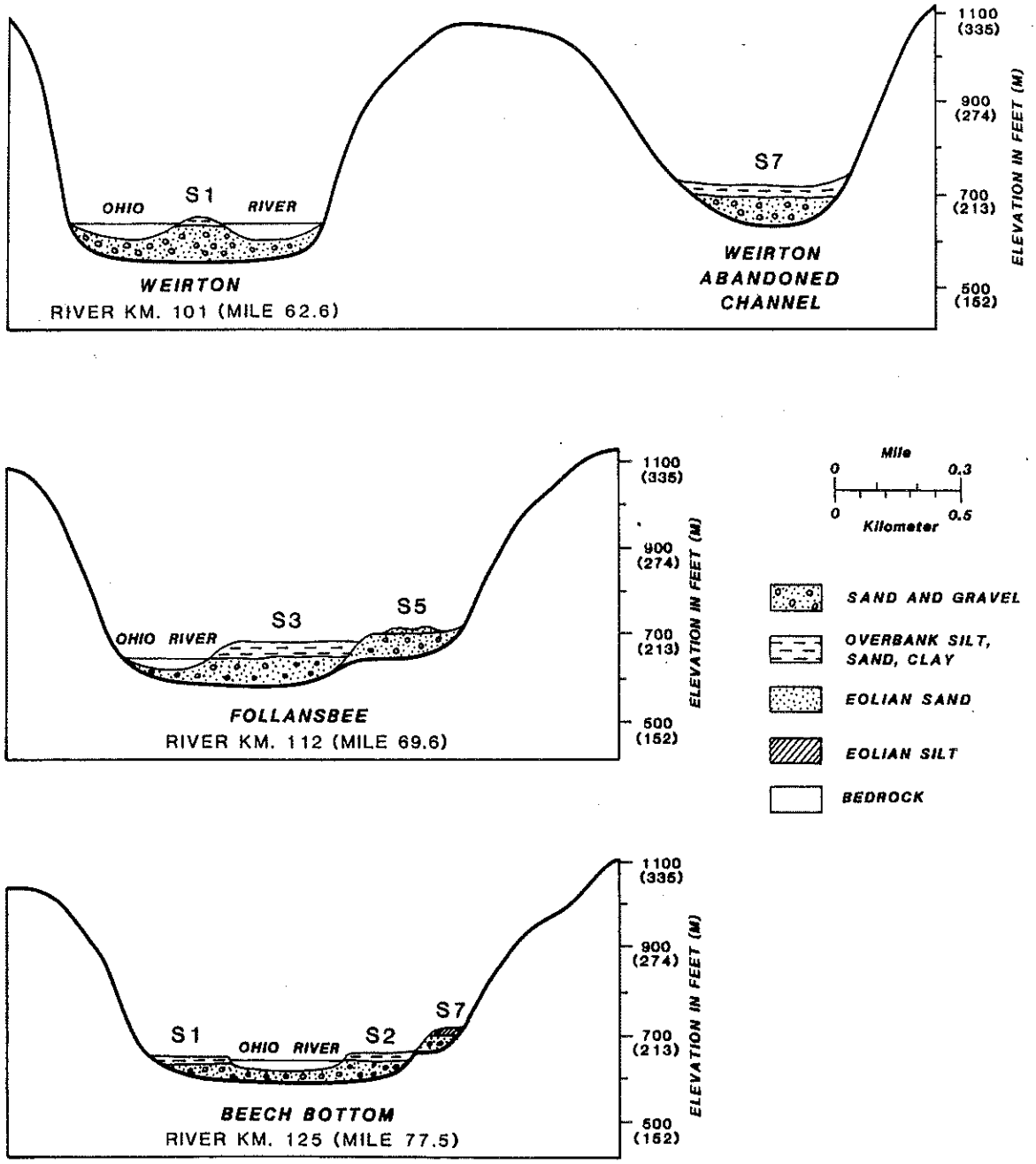

Figure 10. Ohio River Valley cross-section of elevated bedrock floor under terraces S7 and S5. Cross sections are at indicated mile markers.

estimated from a 7.5-minute topographic map. The abandoned channel at Weirton (13 km or 8 miles upstream from Follansbee) also has an elevated bedrock floor of roughly 195 m (640 ft) a.s.l. (D'Appolonia and others, 1967, fig. 1).

Surface 0 (S0), the surface closest to the river is located 5 m (16 ft) or less a.l.w. throughout the study area (fig. 5). S0 is a typically narrow floodplain that is inundated by water several times a year (where it is above normal-pool level of the present C.O.E. locks and dams, fig. 5). Surface 1 (S1), approximately 4 m (14 ft) higher than S0 or approximately 9 m (30 ft) a.l.w. (fig. 8), is inundated once every three or four years (where it is above normal-pool level of the present C.O.E. locks and dams, fig. 5), as described for the Huntington soil series in Monroe County, Ohio (Hayhurst and others, 1974). Both surfaces maintain their respective heights a.l.w. throughout the study area. S0 is rare in the northern part of the study area because the valley is narrow, but becomes more common below the mouth of the Muskingum River (fig. 5) where the valley is wider. S1, on the other hand, begins on the Ohio River above Beaver River and continues downstream as the most prevalent surface in the valley (fig. 5). S1 is also less continuous in the northern panhandle than in the Wood County area. Beaver River and the Muskingum River have floodplains at the same relative level as S1, whereas Little Beaver Creek has a floodplain at the same relative level as S0 (fig. 6).

Soil formation on S0 and S1 is frequently interruped by scour and the addition of overbank sediment during floods. As a result, soil profile development is limited by the short amount of time since alluvial deposition. Therefore, the soils are poorly developed with no argillic horizons and only a slight difference in color below the surface layer identifying a B horizon (see Table II). Soils are developed to a depth of about 1.5 m (5 ft). The silt, sand, and clay overbank sediment also includes occasional lenses of sand and gravel. Thicknesses of the overbank deposits range from 1.1 to 10.4 m (3.6 to 34 ft), see Table II.

Surface 2 (S2) is a floodplain surface that is occasionally flooded. S2 begins on the Ohio River above Beaver River and continues downstream as the second most prevalent surface. The surface is at approximately 15 m (50 ft) a.l.w. in Beaver County, Pennsylvania, tapers to a height of approximately 12 m (40 ft) by 64 km (40 miles) downstream, and maintains that height to the end of the study area (fig. 8). Beaver River is the only glaciated tributary with a surface at this height (fig. 6). Beaver River and the Ohio River, often have gravel near the surface until river km 72 (mile 45), where 1.2 m (4 ft) of overbank silt, sand, and clay with occasional lenses of sand and gravel mantle the gravel (see Table II). According to water well logs from Wellsburg (river km 119, mile 74) downstream to Paden City and in Wood County (Appendix II), 1.2 to 11.3 m

(4 to 37 ft) of fine overbank sediment (silt, sand, and clay) cover the sand and gravel.

All the soils on S2 are Alfisols. The soils in the sand and gravel are weakly to moderately developed and have Bt (argillic) horizons. Some of the soils in the finer-grained parent material have distinct Bt horizons with weak but definite clay accumulations while others are moderately developed with a Bt and Bx (fragipan) horizon, respectively (see Table II). The Wheeling variant series in Monroe County has a thicker silt cap and is flooded more frequently than the regular Wheeling series, and thus, is considered equivalent to the other soil series on S2.

The Chili series has been correlated in Columbiana County, Ohio to the Wisconsinan advance (Lessig, 1961b). White (1982) later changed the correlation of the Chili series to the late Wisconsinan Kent advance. Lessig traced terrace surfaces of Little Beaver Creek and parts of the northern Ohio River to the limit of the Kent Till as well as studying the terrace soil development. No radiocarbon control was available for the terraces in that area. Kent age gravelly soils (later named Chili series by Lessig and others, 1968) are leached of limestone clasts to a depth of 1.5 to 2.4 m (5 to 8 ft), have combined A and B horizons of 0.8 to 1.2 m (2.5 to 4 ft) deep, and have a "moderate" amount of clay accumulated in the Bt horizon. The late Wisconsinan Chili soils are similar to the early Wisconsinan Negley soils

but are not as well developed or as well weathered (Lessig, 1961b). Soils in other counties on surfaces correlative to Columbiana County surfaces with Chili and Negley series soils (Table II) are not differentiated as early-or late-Wisconsinan, if they are identified as Wisconsinan at all. Lessig's correlations of Ohio River terrace deposits by degree of soil formation (1961b) is the most in-depth study available. Surfaces correlative to those with Chili series in Columbiana County should be late Wisconsinan in age, based on the research by Lessig (1961b), Lessig and others (1968), White (1982), and White and Totten (1985). However, two radiocarbon dates for S2 downstream from Columbiana County show a Holocene age (see Radiocarbon Dates section). The late Wisconsinan Kent age for the Chili series on S3 can be inferred by its position between S4 (radiocarbon dated as Kent-aged) and S2 (radiocarbon dated as very early Holocene-aged). Either Lessig's correlations of Chili series soils cannot be extended downstream or the series is not exclusively confined to Kent-aged surfaces.

Surface three (S3) begins above the mouth of Beaver River and continues downstream as the third most continuous surface (fig. 5). The terrace surface begins approximately 21 m (70 ft) a.l.w. and has lowered to approximately 16 m (53 ft) a.l.w. by river km 97 (mile 60), an elevation it maintains until river km 250 (mile 155) (fig. 8). For the next 32 km (20 miles), it gradually rises 2 m (6 ft) until it

is 18 m (60 ft) a.l.w. at the mouth of the Muskingum River. This height is maintained to the end of the study area. The surface was partially flooded in the record high floods (from the northern end of the study area to river km 185 (mile 115) in 1936 and downstream to the end of the study area in 1913. Floodwaters deposited mud on the surface in Ohio and Marshall Counties, West Virginia (U.S. Corps of Engineers, 1971a; 1971b) and presumably also in the other Ohio River counties. Surface sediment is sand and gravel in Beaver County, Pennsylvania and Columbiana County, Ohio. Farther downstream, from Monroe County, Ohio (river km 113, mile 70) to the end of the study area, core logs and U.S.D.A. Soil Conservation Service soil descriptions reveal 1.0 to 9.8 m (3 to 32 ft) of overbank silt, sand, and clay. Silt (loess?) mantles the surface in Belmont County, Ohio, whereas sand (eolian ?) is the surface mantle in Wood County. S3, with a cap of overbank sediments, can be traced up the Muskingum River as a discontinuous surface (fig. 6).

The soils of S3 have weakly to moderately developed profiles. All have a Bt as the best-developed horizon except for one which has a Bx horizon, and the B and C horizon in the sand deposits (see Table II). Poor soil development in the sand deposit is partly due to the thick, deep, very highly permeable sands not being conducive to soil development rather than a young age (Ellyson and others, 1974).

Although surface four (S4) is not as common as S3, it occurs throughout the river's length. S4 begins on the Ohio River north of Beaver River, where it is joined by a Beaver River terrace of the same level (fig. 6), and continues downstream to the end of Wood County. The Muskingum River also has a terrace at this level. S4 begins at an elevation of approximately 27 m (90 ft) a.l.w. in the north, tapers to approximately 21 m (70 ft) by river km 250 (mile 155), where it gradually rises to approximately 23 m (76 ft) near the mouth of the Muskingum River (fig. 8). It maintains this level to the end of the study area.

S4 is gravelly to the north, in Beaver and Columbiana Counties, and below the mouth of the Muskingum River in Washington County. The coarse deposits are covered downstream by 1.1 to 6 m (3.5 to 20 ft) of alluvial silt, sand, and clay. A core log on S4 at Warwood (river km 138, mile 86) shows 1.9 m (6.3 ft) of silt, sand, and clay and two core logs on S4 at Paden City (river km 317, mile 197) show 3 m (10 ft) of the same sediment (Appendix II). Greater than 1.2 m (4 ft) of sand locally mantle S4 in Ohio, Brooke, Hancock, Marshall, Washington, and Wood Counties. The U.S.D.A. Soil Conservation County soil surveys (see Table II) attribute the sand to wind and water-laid deposits. Only the Wood County soil survey differentiates them by defining water-laid deposits as 1.2 to 1.8 m (4 to 6 ft) of sand with a 3 to 10% slope, and "apparent" wind deposits as greater

than 3 m (10 ft) of fine sand with a 3 to 30% slope. Two of the sample sites, Power and New Martinsville, are on this surface (figs. 1 and 5).

The soils of S4 are the same series as S3 soils with the addition of the gravelly Negley series in Columbiana County. Negley soils also have a moderately developed Bt horizon. The Negley series is characteristic of Little Beaver Creek and Ohio River terraces correlated to the "Illinoian" advance (Lessig, 1961b). White (1982) later changed the correlation of the Negley series to the early Wisconsinan Titusville advance. Titusville age gravelly soils (later named Negley series by Lessig and others, 1968) are leached of limestone clasts to a depth of 5 to 8 m (15 to 25 ft), have a B horizon of 0.9 to 2.4 m (3 to 8 ft), and more clay than the late Wisconsinan Kent age Chili series. The early Wisconsinan Negley series has a similar parent material to the late Wisconsinan Chili series but is more developed and weathered (Lessig, 1961b). The Negley series is the only soil in the U.S.D.A. Soil Conservation Service county soil surveys distinguished as early Wisconsinan. Surfaces correlative to those with Negley series soils in Columbiana County should be early Wisconsinan in age, based on research by Lessig (1961b), Lessig and others (1968), White (1982), and White and Totten (1985). However, two radiocarbon dates for S4 downstream from Columbiana County show a late Wisconsinan Kent age, not an early Wisconsinan Titusville age

(see Radiocarbon Dates Section). One of the dates for S4 (22,340 ± 960 yr. B.P.) is very early Kent (Table I), which suggests that S5 and S6 were deposited prior to the Kent-aged terraces. Therefore, an early Wisconsinan Titusville age can probably be inferred for the Negley series on S5 and S6, but not S4. Either Lessig's correlations of the Negley series soils cannot be extended downstream or the series is not exclusively confined to Titusville-aged surfaces.

Terrace S5 begins on the Ohio River at river km 55 (mile 34) and continues downstream as a common surface (fig. 5). S5 begins at an elevation of approximately 32 m (106 ft) a.l.w. and has tapered to approximately 27 m (90 ft) a.l.w. by river km 121 (mile 75), an elevation it maintains until river km 274 (mile 170). For the next 16 km (10 miles), it gradually rises to 29 m (96 ft) a.l.w. and maintains that level to the end of the study area (fig. 8). Little Beaver Creek and the Muskingum River have surfaces at the same level as S5 (fig. 6).

S5 has the same gravelly surface and soil series as S4 in Columbiana, Beaver, and Washington Counties (Table II) but is capped dowstream by 0.6 to 6 m (2 to 20 ft) of alluvial silt, sand, and clay. Locally, the surface is mantled by 0.7 to 4.6 m (2.5 to 15 ft) of silt and sand. Also, two exposures of approximately 15 m (50 ft) of trough cross-bedded sand are located 13 km (8 miles) upstream from the Muskingum River's mouth just north of the Wood County line.

These thick sand units were probably deposited in a lower energy environment than the sand and gravel deposited farther upstream along West Virginia's northern panhandle. Eight sample sites are on S5: East End (Ohio), Chester, Newell 1 and 2, Arroyo sand, Follansbee sand, Follansbee sand and gravel, and Dilles Bottom (Ohio), see figures 1 and 5.

S6 occurs in two segments of the Ohio River (fig. 8). The first segment begins north of the mouth of Beaver River, where it is joined by a terrace on that tributary, and ends at approximately river km 73 (mile 45) at East Liverpool, Ohio (fig. 5). The level begins about 38 m (123 ft) a.l.w., and gradually declines to about 32 m (105 ft) a.l.w. before disappearing. It reappears at the mouth of the Muskingum River and continues at about 34 m (110 ft) a.l.w. to the end of the study area (fig. 8). The terrace has a gravelly surface in Beaver and Columbiana Counties (see Table II). Below the mouth of the Muskingum River, 1 to 1.5 m (3 to 5 ft) of overbank silt, sand, and clay and 0.7 to 4.6 m (2.5 to 15 ft) of sand of possible eolian origin cover the surface.

Segments of an older surface, S7, are at the same level as S5 from Weirton (river km 103, mile 64) to at least Beech Bottom (river km 126, mile 78), and possibly farther downstream (fig. 8). This reach of the Ohio River does not have any S6 surfaces. S7 is called a separate surface, even though it is at the same level as S5 (fig. 5), because evidence, such as the elevated bedrock floor at Weirton's

abandoned channel and the anomalously well-developed soil profile at Beech Bottom (figs. 1 and 10), suggests that S7 is older than S5. In comparison, a less well-developed soil profile, similar to that of S5, formed in the alluvium overlying the Follansbee elevated bedrock floor. Therefore, the uppermost deposits at Follansbee is probably younger than the S7 deposit.

The elevated bedrock floor is 195 m (640 ft) a.s.l. at Weirton (river km 100, mile 62) (D'Appolonia and others, 1967, fig. 1), an average of 195 m (640 ft) a.s.l. at Follansbee (river km 113, mile 70) (see Appendix II for oil and gas well numbers), and an estimated 198 to 201 m (650 to 660 ft) a.s.l. at Beech Bottom (river km 126, mile 78) where it outcrops below the alluvium (fig. 10). The elevations at Follansbee and Beech Bottom are rough estimates based on measurements of valley-side remnants whereas the Weirton channel elevation is a rough estimate based on a cross-valley profile, so these levels should not be interpreted as a drainage reversal. Weirton's abandoned valley is only half the width of the present Ohio River Valley at its maximum width at Weirton. The bedrock floor underlying S7 is 21 to 27 m (70 to 90 ft) higher than the present Ohio River bedrock floor at Weirton (D'Appolonia and others, 1967, fig. 1).

The bedrock floor underlying the deposits correlated as Illinoian (Jacobson, 1985, fig. 3.5) are at an elevation of 245 m (804 ft) a.s.l. at Globe Hill (16 km or 10 miles

upstream from Weirton) and at 241 m (790 ft) a.s.l. at the terrace scarp at East End (37 km or 23 miles upstream from Weirton) (Lessig, 1959a; 1959b). Again, the bedrock elevations are rough estimates of the channel floor because they are measured at valley-side remnants. These elevations are approximately 40 to 50 m (130 to 164 ft) higher than the S7 bedrock floor at Weirton's abandoned channel, Follansbee, and Beech Bottom. Relative elevations show that the bedrock floor under S7 is lower than, and therefore post-dates the bedrock floor underlying Illinoian alluvium, but pre-dates the bedrock floor underlying S0 through S6.

A comparison of weathering of the alluvium overlying these bedrock floors provides a relative means for dating the deposits. In the Illinoian terrace alluvium at East End and Globe Hill, Canadian Shield erratics were rotten to a depth of 4 m (13 ft) and limestone clasts were completely decomposed and lacking throughout the profile (Lessig, 1959a; 1959b). No alluvial deposits examined in this study were as well-weathered.

An analysis of weathering of the alluvium in Weirton's abandoned channel could not be made in this study due to the lack of exposures because of extensive urban development. However, cobble-sized Canadian Shield erratics were sampled from shovel holes at two terrace scarps. A radiocarbon date of greater than 40,000 yr. B.P. at the interface of the colluvium overlying alluvium (D'Appolonia and others, 1967)

indicates that the alluvium is at least older than late Wisconsinan (see Table I).

Beech Bottom alluvium is less weathered than Illinoian alluvium. The 3.4 m (11 ft) thick silt cap has a thick soil with 0.9 m (37 inches) of well-developed argillic (Bt) horizon and a 1.4 m (55 inch) thick fragipan (Bx). Both the Bt and Bx horizon have moderate prismatic structure. The 7.3 m (24 ft) of sand and gravel underlying the silt contains some poorly cemented sandstones that were oxidized orange and rotten to the point of being broken with only fingers. No rotten sandstones were found at any other sample sites or exposures in this study. Canadian Shield erratics, limestones, and other sandstones were intact although somewhat weathered. Extensive gullying of the S7 segment at Beech Bottom may be a function of its relatively old age. Contour crenulations on 7.5-minute topographic maps indicate similar gullies occur on a surface of the same elevation at Wellsburg, 6 km (4 miles) upstream. The Wellsburg terrace is similar to the Beech Bottom terrace in that it is also a narrow segment against the valley wall and has a thick silt cap overlying sand and gravel. No exposures were available in Wellsburg for a detailed study of the deposits and the bedrock floor elevation is unknown. However, Canadian Shield erratics were obtained from shovel holes at two terrace scarps. Based on a similar degree of erosion of surface silt, the Wellsburg S7 alluvium is probably the same age as

the Beech Bottom S7 alluvium. Using Lessig's (1959a; 1959b) criteria of weathering, the Beech Bottom deposit, and probably Wellsburg deposit are younger than Illinoian.

In contrast, the Follansbee alluvium is less-weathered than the Beech Bottom alluvium. The soil developed in the 0.9 m (36 inch) thick silt mantle has a 0.44 m (17.3 inch) thick Bt horizon with weak subangular blocky structure. Compared to Beech Bottom's soil, the Bt is half as thick and the soil structure is much weaker. The underlying gravels, including Canadian Shield erratics, limestones, and sandstones, were all relatively unweathered. Follansbee's gravels are weathered to a similar degree as those at the same stratigraphic position (under a thin silt mantle) under S5 at the East End and Newell 1 sites. The S5 deposits at East End and Newell have been correlated to the early Wisconsinan Titusville Till (White, 1982). Hence, the Follansbee alluvium appears to be younger than the Beech Bottom alluvium and is here considered the same age as S5 deposits, early Wisconsinan.

The alluvium at Weirton, Beech Bottom, and probably Wellsburg post-date the Illinoian, as used by Lessig (1959a; 1959b) and Jacobson (1985), and pre-date the early Wisconsinan (Fullerton, 1986) based on a greater than 40,000 yr. B.P. date, bedrock and surface elevations lower than mapped Illinoian, bedrock elevations higher than those underlying Titusville outwash, correlated as early

Wisconsinan by White, (1982), and weathering of soils and gravels. Therefore, the S7 deposits are probably Sangamonian based on morphologic relationships with landforms whose ages are inferred by others.

DEPOSITS

The eight fluvial surfaces along the Upper Ohio River Valley are underlain by a combination of five different facies (Simard, 1988). The different facies were observed at numerous exposures in the field and verified with laboratory analysis. Each facies is summarized in Table III and illustrated in figures 7 and 9. Of the five facies, only the coarse-grained Ohio River alluvium and eolian sand meet the requirements of a construction aggregate for concrete.

The coarsest, most dominant facies, coarse-grained Ohio River alluvium, consists of poorly sorted, well-rounded gravel, sand, and minor silt and clay. Gravels in this unit are mainly local Pennsylvanian and Permian sandstones with some shales, siltstones, vein quartz, quartzites, cherts and about 3 to 7% Canadian Shield erratics. This facies is an important source of construction material aggregate because the clean, well-rounded, hard gravels, and the low amount of silt and clay make a strong concrete (American Society for Testing Materials, 1978). The coarse-grained alluvial facies dominates at the sample sites of East End, Newell 1, Newell 2, Power, Dilles Bottom, and New Martinsville. Figure 11,

TABLE III: SUMMARY OF FACIES OF THE OHIO RIVER VALLEY FILL

FACIES NAME	MIALL (1981) NOMENCLATURE	ORIGIN	SEDIMENT TYPE	SEDIMENTARY STRUCTURES	LANDFORM OCCURRENCE	COMMENTS
coarse-grained Ohio River alluvium	Gm, Gt, Gp	outwash	rounded to well rounded gravels stratified with sand, minor silt, and clay	horizontal, trough, and planar crossbeds	terraces and floodplains	gravels include crystallines, quartzite, chert, vein quartz
tributary alluvium	Gm, Gt, Gp	tributary stream	subrounded gravel stratified with more sand, silt and clay than coarse-grained Ohio River alluvium	trough and planar crossbeds	terraces and floodplains	local lenses within coarse-grained Ohio River alluvium
colluvium	Gms	gravity deposits	matrix supported angular gravels of sandstone, shale and siltstones	none	terraces and floodplains	interfingers with alluvium at valley walls
fine-grained Ohio River alluvium	Fl	overbank or waning flood deposits	sand, silt, and clay	none seen	terraces and floodplains	occasional lenses of sand and gravel
eolian sand	Spe, She	eolian deposits	sand	planar crossbeds	terraces	hummocky, dune-like topography
eolian silt	?	eolian deposits	silt	none	terraces	none

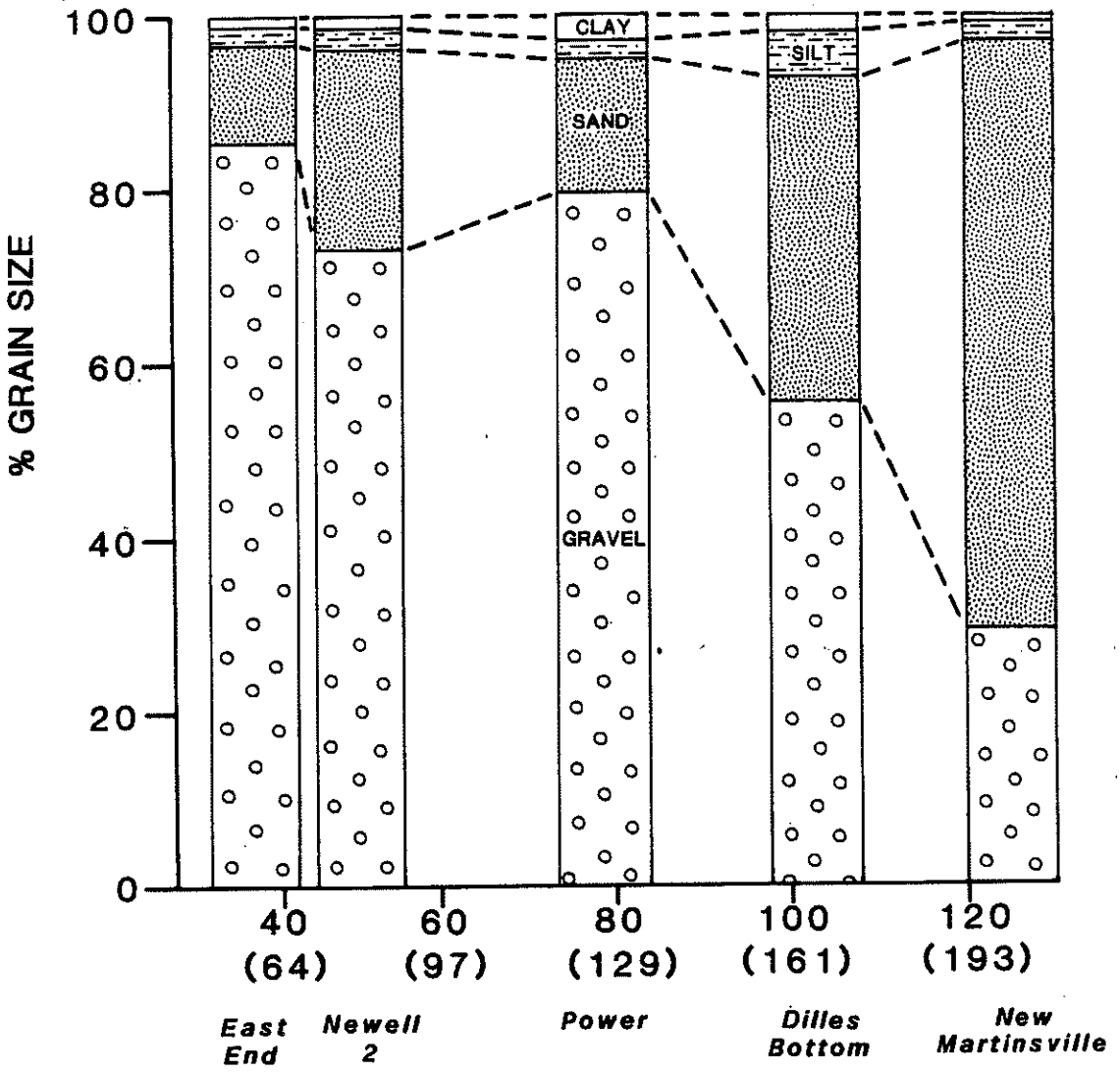

Figure 11. Histograms showing downstream changes in grain size of coarse-grained Ohio River alluvium. Sample sites shown on figures 1 and 5.

shows that the percentage of gravel occurring at these localities decreases from 86% at East End to 30% at New Martinsville. Correspondingly, mean grain size decreases downstream (fig. 12). The downstream decrease in grain size is a function of larger, heavier grains being deposited near their source and a reduction of clast size through abrasion.

A plot of pebble counts for selected samples at Newell 2, Dilles Bottom, and New Martinsville (fig. 13) shows a downstream increase from 5 to 9% in Canadian Shield erratics and quartzites. These lithologies do not crop out in the Ohio River basin; hence, they were introduced to the Ohio River Basin as outwash from the Laurentide Ice Sheet. Vein quartz does not crop out in the field area but can also be reworked from conglomerates that crop out in the basin and, therefore, is not exclusively an indicator of an outwash origin. The dramatic increase in chert in both late Wisconsinan S4 (New Martinsville) and early Wisconsinan S5 (Dilles Bottom) deposits indicates that there is a downstream increase in chert for each different-aged outwash. Local limestone units along the Ohio River Valley contain small amounts of nodular chert which may have been added to the outwash by local tributaries. Arkle and others (1967) speculate that the downstream increase in chert is due to its tendency to fracture and pit, thereby increasing in concentration in the smaller gravel and sand sizes. The total volume of chert may be due to a downstream increase in

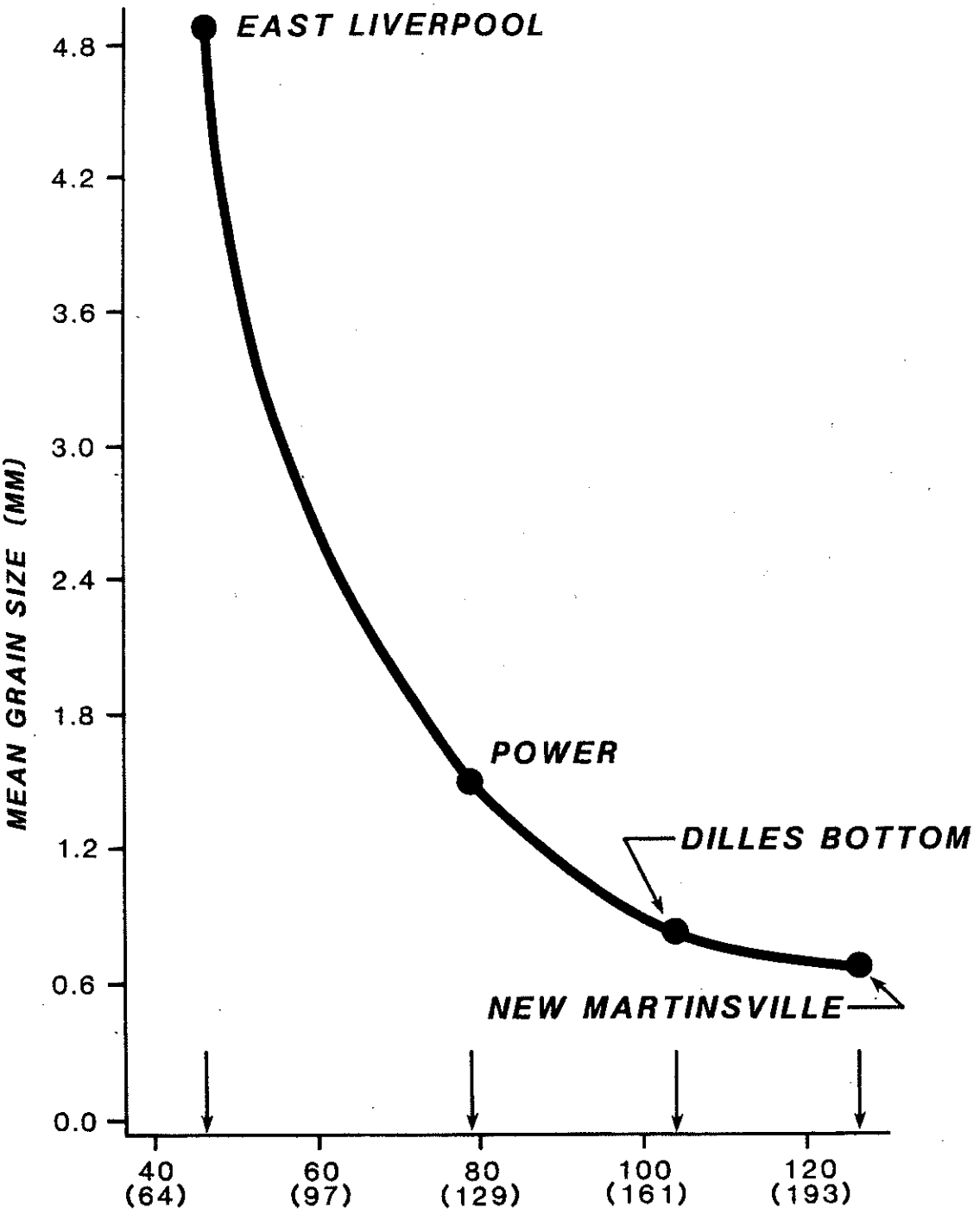

Figure 12. Graph showing downstream decrease in mean grain size of coarse-grained Ohio River alluvium. Sample sites shown on figures 1 and 5.

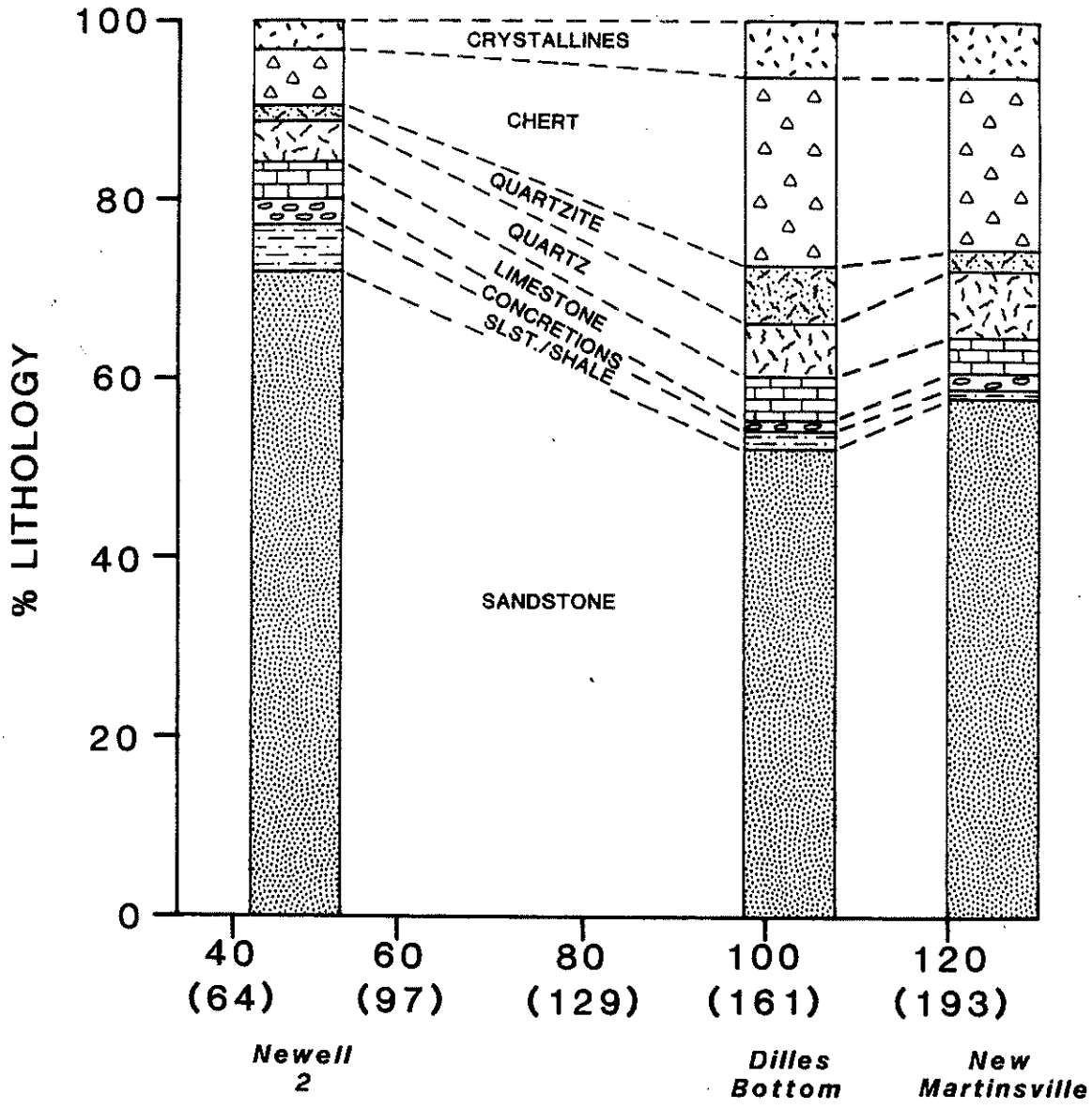

Figure 13. Histograms of gravel (12.7 to 6.35 and 4.00 to 2.00 mm) lithology in coarse-grained Ohio River alluvium versus distance downstream. Sample sites shown on figures 1 and 5. Sample data are in Appendix V.

concentration by reworking from outwash and local sources. Chert is detrimental to concrete because it expands when reacting with alkalies in cement, thereby causing cracks and weakening of concrete (American Society for Testing Materials, 1978).

Coarse-grained Ohio River alluvium also includes a high percentage of well-rounded, spherical pebbles, as documented at sample sites Newell 2, Dilles Bottom, and New Martinsville (figs. 14 and 15). The distinct downstream increase in roundness and the gradual increase in sphericity downstream occurs from abrasion with greater distance traveled.

The stratigraphy of the coarse-grained Ohio River alluvium consists of lenses of planar and trough cross-bedded sand and gravel, planar and trough cross-bedded sands, and minor thin silt beds. Grain size changes abruptly both vertically and horizontally due to the lenticular nature of the beds. Based on the coarse grain size and coarse sedimentary structures, the environment of deposition of the coarse-grained Ohio River alluvium is interpreted as channel fill and bars of an aggrading braided stream system (Miall, 1981).

The second facies is composed of finer-grained tributary alluvium which forms local lenses within the coarser-grained Ohio River alluvium. Gravels in the tributary alluvium are predominantly flat, subrounded sandstones with some shale and

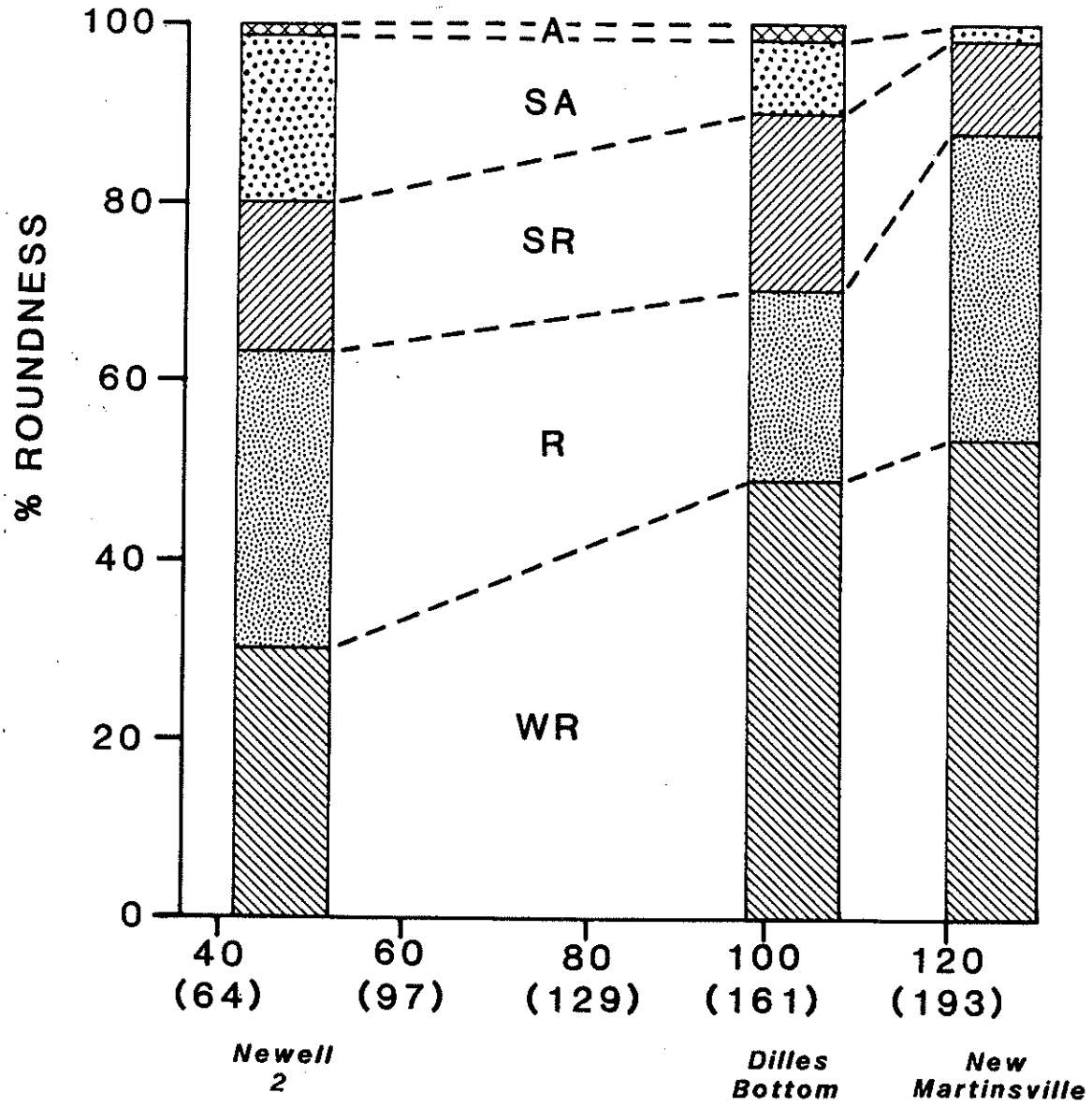

Figure 14. Histograms of gravel (6.35 mm) roundness of coarse-grained Ohio River alluvium versus distance downstream. WR = well rounded, R = rounded, SR = subrounded, SA = subangular, A = angular. Sample site locations shown on figures 1 and 5. Sample data are in Appendix V.

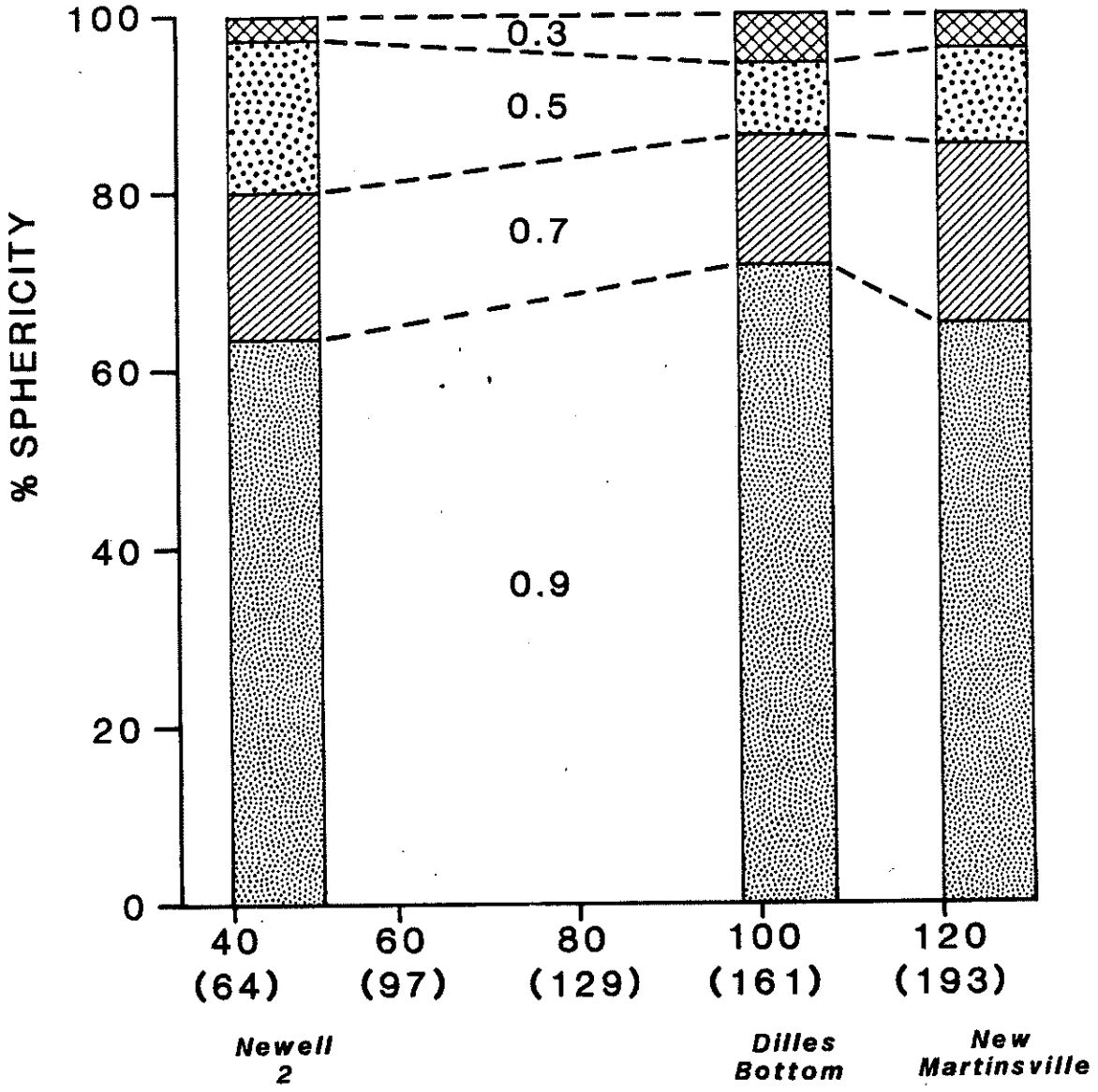

Figure 15. Histograms of gravel (6.35 mm) sphericity in coarse-grained Ohio River alluvium versus distance downstream. 0.9 = most spherical, 0.3 = least spherical. Sample site locations are shown on figures 1 and 5. Sample data are in Appendix V.

more sand and silt than coarse-grained Ohio River alluvium. This facies includes soft, weakly cemented, local sandstone and shale, and too much silt and clay to be an economic resource of construction aggregate. The Chester site contained some tributary alluvium facies, whereas the Follansbee sand and gravel site was primarily tributary alluvium. Figure 16 illustrates the greater percentage of sand, silt, and clay of the tributary facies compared to coarse-grained Ohio River alluvium. A sample at Follansbee contains 99.3% gravels of local origin compared to an average of 88.6% in two coarse-grained Ohio River alluvium samples at nearby Beech Bottom (fig. 17). The extra-basinal quartzite and Canadian Shield erratics in the tributary alluvium are from contemporaneous deposition with coarse-grained Ohio River alluvium or incorporation from higher terrace deposits. Figure 18 illustrates the predominance of subrounded gravels in the tributary samples compared to the greater number of well-rounded gravels in the coarse-grained Ohio River alluvium samples. A graph of gravel sphericity (fig. 19) shows that both facies have about the same amount of the most spherical gravels (0.9) but the tributary alluvium has more of the less spherical gravels (0.5 and 0.3).

The Chester and Follansbee sites have lenses of silt, planar and trough cross-bedded sands, and planar cross-bedded sand and gravel similar to bed forms in the coarse-grained

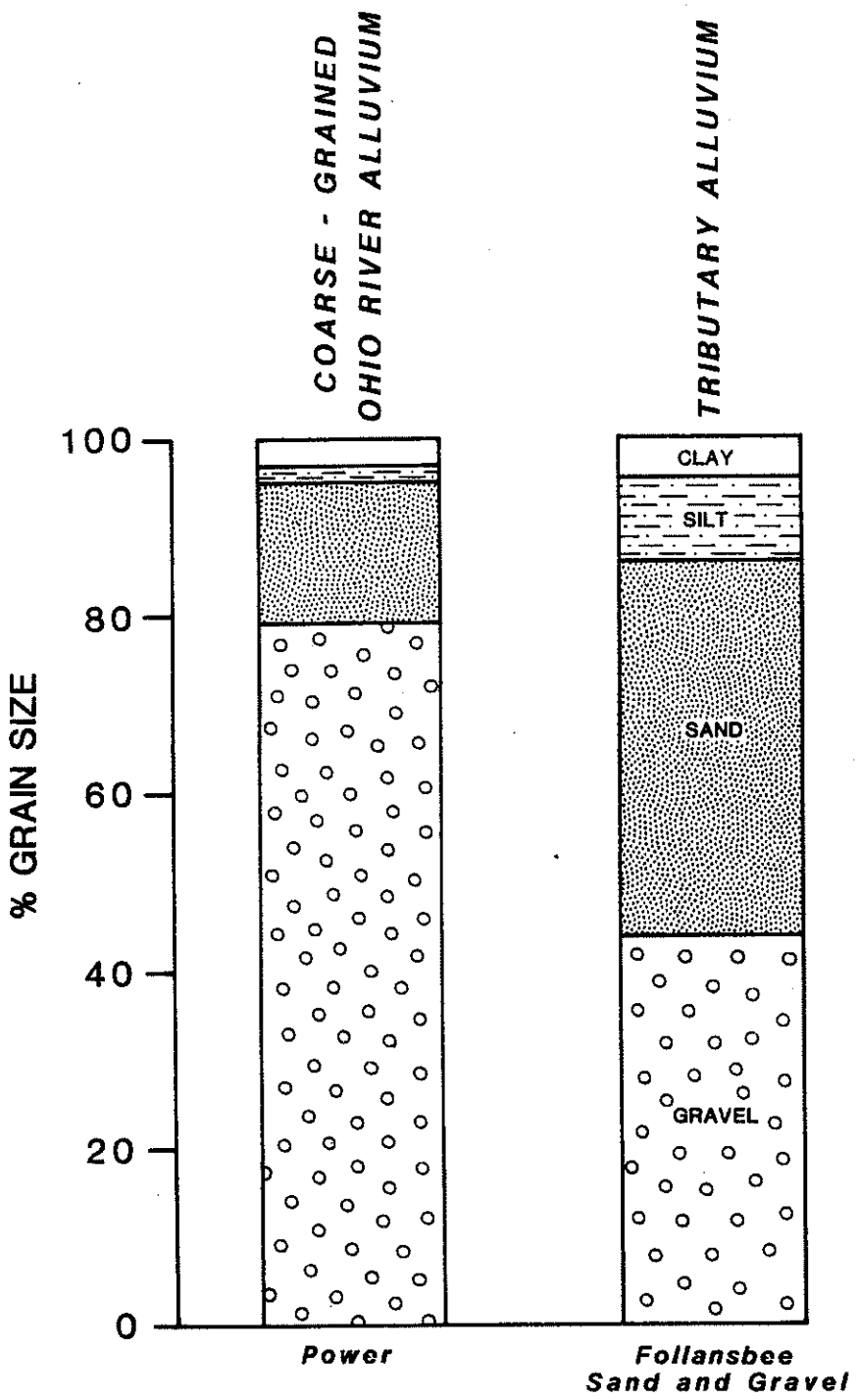

Figure 16. Histograms of grain size of coarse-grained Ohio River alluvium versus tributary alluvium. Grain size analysis if for each site. Site locations are shown on figures 1 and 5.

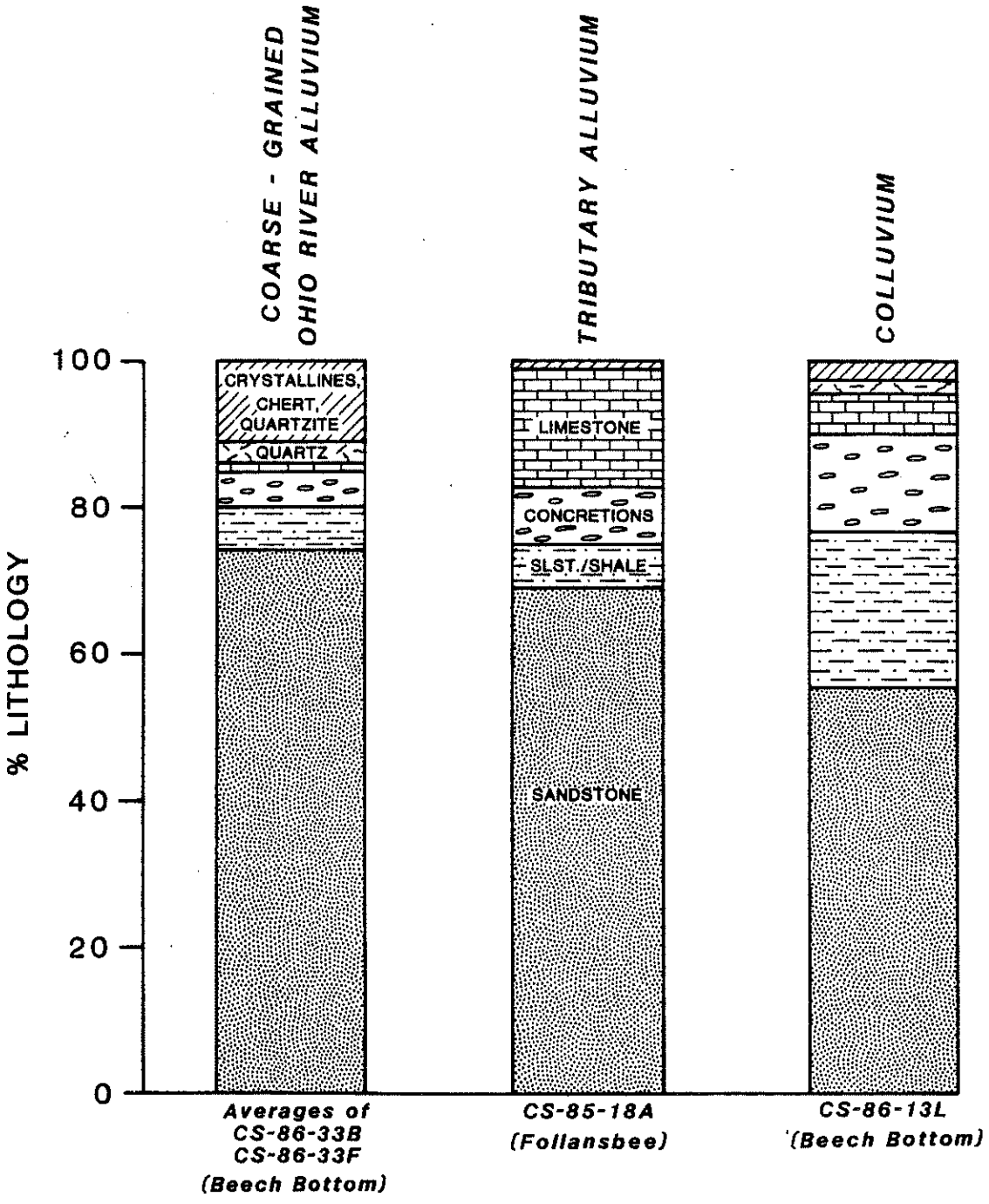

Figure 17. Histograms comparing gravel (6.35 and 2.00 mm) lithology of coarse-grained Ohio River alluvium, tributary alluvium, and colluvium. Sample site locations are shown on figures 1 and 5.

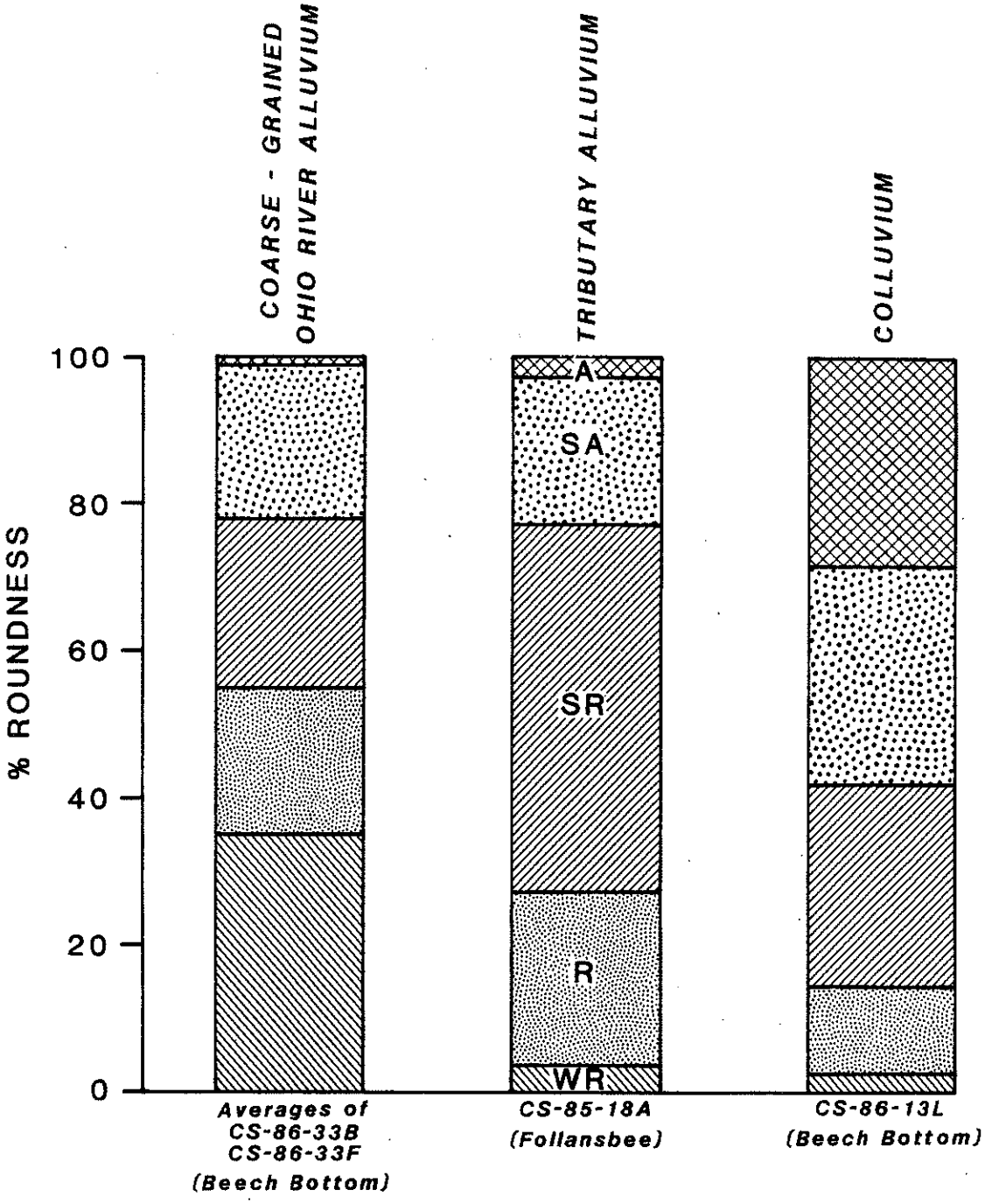

Figure 18. Histograms comparing gravel (6.35 mm) roundness of coarse-grained Ohio River alluvium, tributary alluvium, and colluvium. WR = well rounded, R = rounded, SR = subrounded, SA = subangular, and A = angular. Sample site locations are shown on figures 1 and 5.

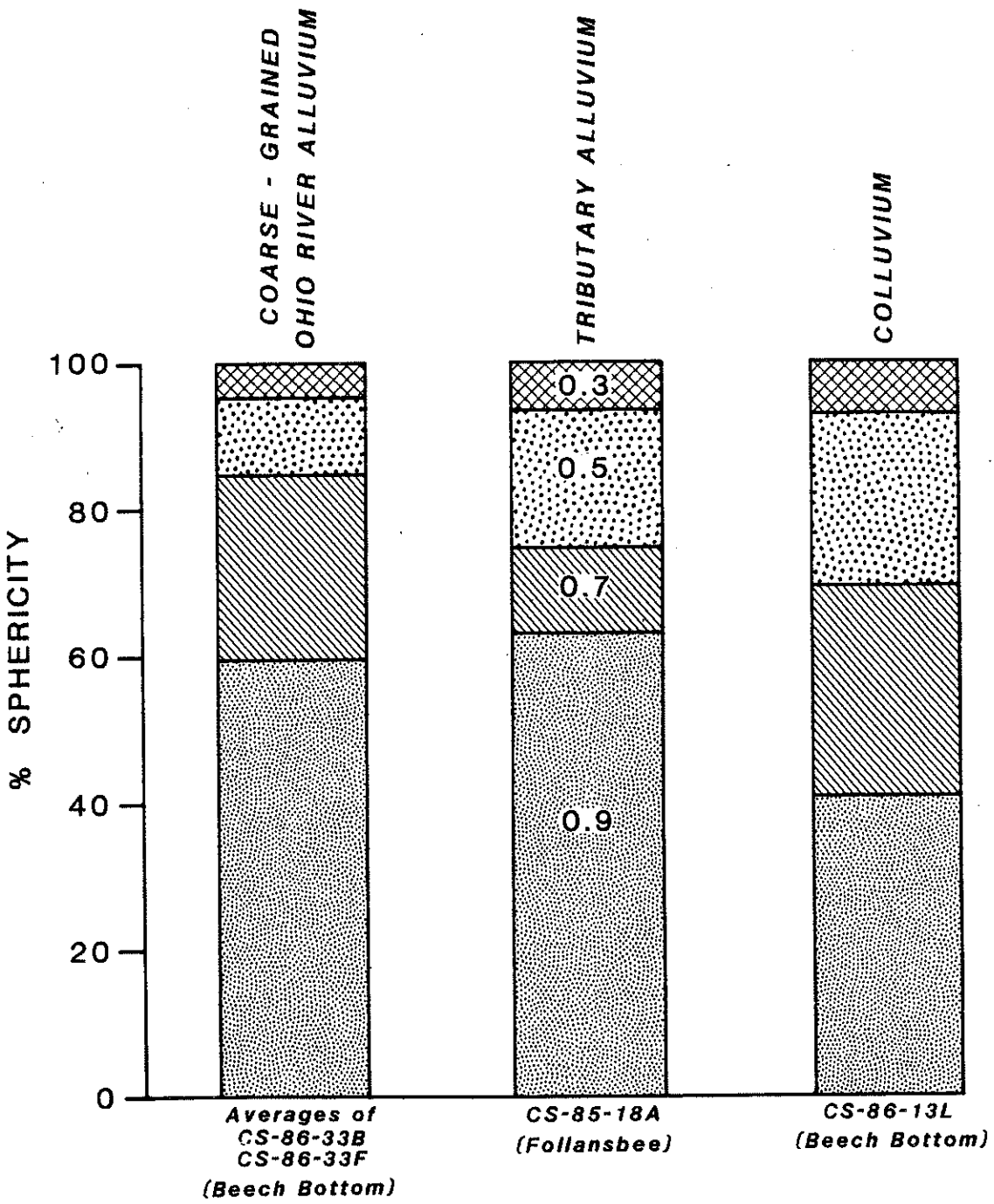

Figure 19. Histograms comparing gravel (6.35 mm) sphericity of coarse-grained Ohio River alluvium, tributary alluvium, and colluvium. 0.9 = most spherical, 0.3 = least spherical. Sample site locations are shown on figures 1 and 5.

Ohio River alluvium but on a smaller scale. Figure 20 depicts the sample site, grain-size distribution, and soil horizons at the Follansbee site. The relatively coarse grain size and varying sedimentary structures are interpreted as channel fill and bars of an aggrading tributary keeping up with the rising base level of the aggrading Ohio River channel.

The third facies consists of colluvial deposits interfingering with the alluvial fill at the valley walls. This facies is characterized by angular sandstone gravels with more shale and siltstone gravels than any other facies. Colluvium has too much silt, clay, and soft (poorly cemented), angular local sandstone and shale gravels for use as a concrete aggregate. In the histograms of figures 17, 18, and 19, sediment dominated by colluvium at Beech Bottom is compared to the coarse-grained Ohio River alluvium at the same site and tributary alluvium at Follansbee. Figure 17 illustrates the greater amounts of shale/siltstone and concretions in the colluvium dominated facies as compared to both alluvial facies. The 3% Canadian Shield erratics are from the interbedding of coarse-grained Ohio River alluvium with colluvium. Figure 18 shows the much greater amount of angular and subangular gravels in the colluvium dominated gravels compared to tributary and coarse-grained Ohio River alluvium. A decrease in sphericity of the colluvium dominated gravels as compared to the alluvial gravels is

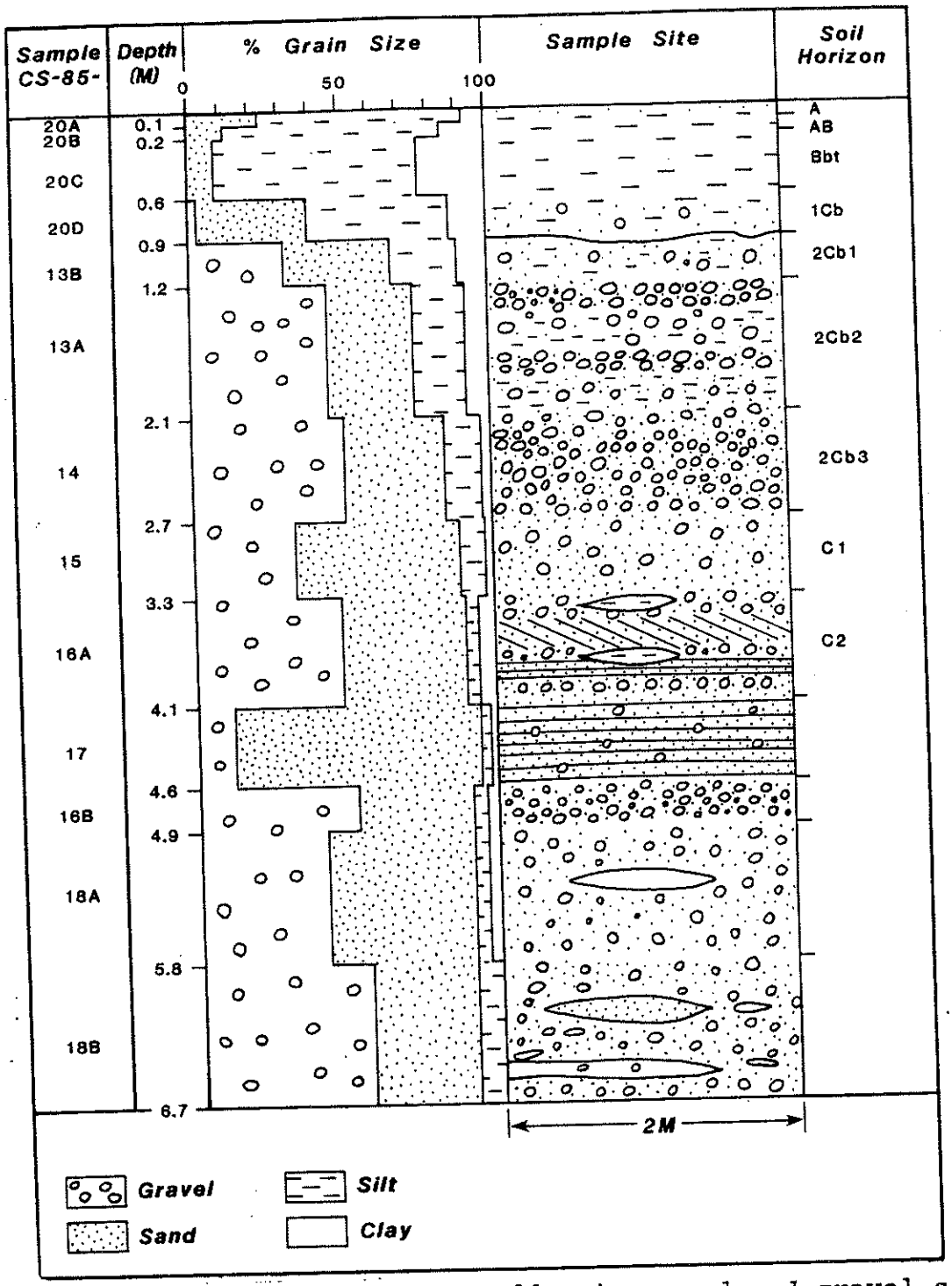

Figure 20. Soil profile of Follansbee sand and gravel site. Grain-size distribution (left) is compared to sampled site (center), and soil horizons (right). Sample site location is shown on figures 1 and 5. Fine-grained Ohio River alluvium occurs from 0 to 0.9 m. Tributary alluvium occurs from 0.9 to 6.7 m depth.

illustrated in figure 19. Colluvium can also be identified in the field by the matrix-supported gravel and very weak bedding.

The coarse deposits of S0 through S3 and parts of S4 through S7 are capped by the fine-grained Ohio River alluvial facies of overbank silt, sand, and clay. The facies is a fining-upward sequence characterized by a thin basal, transitional, gravelly, sandy silt, fining upward to a silt unit as seen at the exposure sites of East End, Newell 1, and Follansbee sand and gravel. The Follansbee sand and gravel site, the most complete profile, is illustrated in figure 20. The overbank alluvium at this site may have been deposited by a tributary (the underlying sand and gravel is predominantly tributary alluvium) instead of the Ohio River, but it is of overbank origin. The transitional zone at a depth of 0.6 to 0.9 m (24 to 36 inches) includes minor gravel, and almost equal amounts of sand and silt, as shown in the grain-size percentage profile (fig. 20). The average particle size of the profile is dominated by silt from a depth of 0.9 m to the surface (Table IV). No sedimentary structures were seen in the silt, probably because of pedoturbation and bioturbation. However, in U. S. D. A. Soil Conservation Service descriptions of the soils developed on the floodplains, the sand, silt, and clay is sometimes stratified at depth (see Table II for soil series). Overbank alluvium is too fine for construction aggregate and is considered an "overburden" that

must be removed prior to quarrying the underlying sand and gravel.

Discontinuous mantles of sand and silt on terraces S3 through S7 represent a possible eolian facies (Ellyson and others 1970, 1974; Kunkle and others, 1960; Lessig and others, 1977; Rubel and others, 1981). The composition of the mantle is mostly sand from Arroyo (river km 81, mile 50) to Follansbee (km 113, mile 70), and mostly silt at Moundsville (km 164, mile 102), Dilles Bottom, Ohio (km 166, mile 103), Round Bottom (km 171, mile 106), and the Steelton area of New Martinsville (km 201, mile 125). Sand and silt mantle the terrace surfaces in Wood County. Silt also mantles low-lying bedrock surfaces of the valley walls.

Table IV compares the Beech Bottom silt mantle (of possible eolian origin), the Follansbee (sand and gravel site) overbank silt cap, and North American and European proglacial loess (Ashley, 1985). The Beech Bottom silt deposit has a three times greater thickness, more silt and clay, and correspondingly, a finer mean grain size than the Follansbee silt deposit. Sorting for both deposits is the same. The average grain size of both deposits falls within the grain-size range of proglacial loess, but both have a finer mean grain size than loess. Pedogenic processes, especially at the older, more weathered Beech Bottom site, may have reduced some of the particles to a smaller size, reducing the mean grain size in the process. However, the

TABLE IV: COMPARISON OF OVERBANK ALLUVIUM AND EOLIAN SILT GRAIN SIZE ANALYSIS

SITE NAME	UNIT THICKNESS m (ft)	TOTAL % SILT				% AVERAGE GRAIN SIZE/PROFILE				MEAN (phi)	SORTING (phi)
		coarse 5 phi	medium 6 phi	fine 7 phi	coarse to fine 5 to 7 phi	gravel	sand	silt	clay		
FOLLANSBEE	0.9 (3)	28	17	9	54	0.4	22	64	14	6.6	2.3
BEECH BOTTOM	3.4 (11)	16	22	7	55	-	6	70	24	7.8	2.3
PROGLACIAL LOESS *	-	-	-	-	-	-	-	60 TO 80	-	4 TO 5.5	-

* from North America and Europe (Ashley, 1985)

original grain size cannot be determined because the whole profile is extensively weathered. No sedimentary structures were found in the silt cap at Beech Bottom possibly because of extensive pedoturbation and bioturbation. The lack of the basal, transitional, gravelly silt, the slightly finer silt, and the approximately three times greater thickness of silt at Beech Bottom compared to Follansbee may be indicative of an eolian rather than overbank deposition, but, this interpretation cannot be supported by grain size analysis when compared to proglacial loess reported by Ashley (1985).

Measured sections of S5 at Arroyo and Follansbee sand pit show 3.7 m (12 ft) and greater than 2.6 m (8.5 ft), respectively, of medium-to-fine sand with planar cross-beds of thinly laminated graded bedding. The sand can be used as a fine aggregate in concrete. The Follansbee deposit appears on a 7.5-minute topographic map and in the field as an elongate tongue shape. The deposits at Arroyo appear on a 1956 aerial photograph as irregular mounds. Almost all the sand deposits were removed during the process of sand and gravel quarrying at the Arroyo sample site prior to this study. The dimensions of the Follansbee sand deposit, as measured from a 7.5 minute topographic map, is a maximum of 90 m (300 ft) wide and 210 m (700 ft) long. Field observation shows the deposit rises about 3 m (10 ft) above the surrounding terrace. The dimensions of the sand deposits at Arroyo were approximately 50 m by 50 m (160 by

160 ft), as measured from the aerial photograph. Mechanical analysis revealed 32 to 54% in the 3 phi (fine sand) size in five of the eight samples at Arroyo and 41 to 57% in the 3 phi sand size in the eight samples at Follansbee. Grain size of the whole profile was 78% sand at Arroyo and 80% sand at Follansbee. Ashley (1985) characterized worldwide proglacial eolian sand as well-sorted sand in the medium-to-fine size with planar crossbeds and graded bedding. Because of dune-like geomorphic expression of the surfaces, the high percentage of well-sorted fine sand, graded bedding, planar crossbeds, and the lack of trough crossbeds in these exposures, these sand facies in the study area are interpreted as eolian.

Figure 9 shows that each of the eight surfaces is underlain by a composite of coarse-grained Ohio River alluvium, tributary alluvium, and colluvium deposits (against the valley walls). Sand and gravel deposits decrease in thickness toward the river, according to available core and water well logs (Table II). Maximum thickness of sand and gravel decreases from 45 m (147.6 ft) under S6 to 15.2 m (49.7 ft) under S0 and S1. Terraces S4, S5, and S6 are overlain by 0 to 6 m (0 to 20 ft) of fine-grained Ohio River alluvium locally capped by 1.5 to 4.6 m (2.5 to 15 ft) of possible eolian sand and silt deposits. Terrace S3 and floodplain surfaces S2, S1, and S0 are covered by 1.1 to 11.3 m (3.6 to 37 ft) of fine-grained Ohio River alluvium.

RADIOCARBON DATES

Radiocarbon dates from organic material within the deposits are an important part of interpreting the geologic history of the surfaces. The radiocarbon dates, as plotted on the surfaces defined in this study, either confirm or refute previous correlations based on soil development and tracing surfaces downstream from early-and late-Wisconsinan tills.

The author knows of six radiocarbon dates available in the study area; three for S2, two for S4 and one for S7. The following descriptions of the radiocarbon dates are given in the order of lowest to highest surface and proceeding downstream for each surface. Table V is a summary of information for each date and figure 8 shows their location and depth below each surface.

A tree branch in an old colluvial failure surface was dated as a 9750 $\pm$ 200 yr. B.P., (lab number not given; Philbrick, 1961) in the deposits underlying S2 at Pike Island Lock and Dam (river km 136, mile 84.3). The approximately 27.4 m (90 ft) thick deposit includes overbank fines (fine-grained Ohio River alluvium) overlying sand and gravel (coarse-grained Ohio River alluvium), both interfingering with and overlain by colluvium at the valley walls (Gray and others, 1979). The colluvial slide plane was overlapped by sand and gravel (Philbrick, 1961). Figure 8

TABLE V: RADIOCARBON DATES

DATE (yr. B.P.)	LAB NUMBER	SITE NAME	SURFACE	DESCRIPTION	REFERENCES
9750 ± 200	Not given in reference	Pike Island Lock and Dam	S2	Tree branch in colluvial slide-plane interbedded with sand and gravel. Branch found about 5.5 m (18 ft) below surface of a 21 m (70 ft) alluvial deposit (silt and clay overlying sand and gravel). Colluvium interbeds and overlies alluvium.	Philbrick (1961); Gray and others (1979)
5000 ± 70	Beta-18553	Blennerhassett Island	S2	Elm log (genus Ulmus) found below 9 m (30 ft) of silty clay and 4 m (13 ft) of sand and gravel. The alluvial deposit was 17.5 m (57.3 ft) thick.	This study; W. Gillespie, personal communication (1986)
5120 ± 300	W-5884	Blennerhassett Island	S2	Elm log (genus Ulmus) found below 9 m (30 ft) of silty clay and 4 m (13 ft) of sand and gravel. The alluvial deposit was 17.5 m (57.3 ft) thick.	This study; W. Gillespie, personal communication (1986)
22,340 ± 960	I-9387	McMechen	S4	Wood fragment found below 3 m (10 ft) of colluvium and 2.4 to 3 m (8 to 10 ft) of alluvium in a 12.5 m (41 ft) thick alluvial deposit.	R. Gray, personal communication (1986); Gray and Gardner (1977)
13,510 ± 270	SI-5480	Boaz	S4	Mammoth bone at depth of 4.6 m (15 ft) under 1.8 m (6 ft) of silty sand and 2.7 m (9 ft) of sand and gravel in a 18.3 m (60 ft) thick alluvial deposit.	Fonner (1980; 1982)
> 40,000	Not given in reference	Weirton	S7	Organic material at base of colluvium overlying alluvium. Colluvium overlies about 10 m (30 ft) of silt and clay and about 15 m (50 ft) of sand and gravel.	D'Appolonia and others (1967); Gray and others (1979)

shows the tree branch was approximately 5.5 m (18 ft) below the surface of the approximately 21 m (70 ft) thick alluvial deposit underlying S2 (Gray and others, 1979). The age of the tree branch, 9750 ± 200 yr. B.P. post-dates the Kent advance which ended approximately 16,000 yr. B.P. (Fullerton, 1986). The post-Wisconsinan date (Table I) indicates that coarse-grained Ohio River alluvium was reworked during the Holocene. The post-Kent age of this deposit conflicts with the late Wisconsinan Kent correlations of the Chili series soils in Columbiana County, Ohio (Lessig, 1961b). Therefore, either the age correlations of Lessig cannot be extended downstream or the Columbiana County Chili series soils are not exclusively confined to late Wisconsinan Kent outwash.

Two logs, dated as 5000 ± 70 yr. B.P. (Beta-18553) and 5120 ± 300 yr. B.P. (W-5885), were found below S2 at Blennerhassett Island (fig. 8) during the drilling of I. E. Dupont De Nemours Company water well 436. The logs, identified as the genus Ulmus (W. Gillespie, personal communication, 1986), were located in a 17.5 m (57.3 ft) thick alluvial deposit under 9 m (30 ft) of silty clay (fine-grained Ohio River alluvium) and 4 m (13 ft) of sand and gravel (coarse-grained Ohio River alluvium). The presence of coarse-grained Ohio River alluvium (outwash) imbedded in the logs and the absence of silt and clay under the outwash gravels verifies that the wood did not fall from the silty clay to that level during the cable tool drilling. The

Blennerhassett Island site is located 169 km (105 miles) downstream of the Pike Island Lock and Dam site, and 29 km (18 miles) downstream from the mouth of the Muskingum River (fig. 8). The Holocene ages of both of these S2 sites indicates continued reworking and redeposition of coarse-grained Ohio River alluvium deposits after glacial retreat. The post-Kent age of these deposits also conflicts with the late Wisconsinan Kent correlations of the Chili series soils in Columbiana County, Ohio (Lessig, 1961b; Lessig and others 1968), as explained in the discussion of for the Pike Island Lock and Dam radiocarbon date.

In McMechen (river km 155, mile 96.5), a wood fragment underlying S4 was dated as 22,340 $\pm$ 960 yr. B.P. (I-9387) (Gray and Gardner, 1977). The core log shows that the wood was at a 5.4 m to 6 m (18 to 20 ft) depth, below 3 m (10 ft) of colluvium and 2.4 to 3 m (8 to 10 ft) of alluvium. The alluvial deposit was 12.5 m (41 ft) thick (R. Gray, personal communication, 1986). The alluvium is described as clayey silt with a trace of rock fragments, chiefly flat to subrounded sandstones and shales. Because of the large amount of silt and clay, the paucity of gravels, and the flat, subrounded shape of the gravels present, the deposit is interpreted as tributary alluvium. No other core logs are available for S4 in the immediate area. However, three nearby water well logs on S3 (Appendix II) describe coarse-grained Ohio River alluvium under 4 m (13 ft) of "surface

soil and clay". Assuming the tributary alluvium is a lense within coarse-grained Ohio River alluvium, and the wood was not reworked from an older deposit, the S4 alluvium was deposited at the time of the Kent advance (Table I).

Mammoth bone fragments, dated as 13,510 ± 270 yr. B.P. (SI-5480) (Fonner, 1982) were found in a gravel pit on S4 at Boaz, 128 km (79.5 miles) downstream from McMechen (fig. 8). The bones were found 4.6 m (15 ft) below the original surface, under 1.8 m (6 ft) of silty, fine-sand and 2.7 m (9 ft) of sand and gravel (Fonner, 1982). The whole deposit was reported by the gravel pit owners to be 18.3 m (60 ft) deep. Fonner described the top 1.8 m (6 ft) as "fine, sandy-silt topsoil" and "silty, fine-sand loess (?)" and the underlying sand and gravel as including chert and granite clasts. The relatively young date for this high level surface could be attributed to influx of post-Kent advance (Table I) sediment from the Muskingum River, located 6.4 km (4 miles) upstream. Underlying this young, coarse-grained Ohio River alluvium may be older Ohio River alluvium from upstream on the Ohio. Therefore, the date of 13,510 ± 270 yr. B.P. may not represent the age of the S4 surface north of the Muskingum River's mouth, but is the maximum age for the surface at this location.

The late Wisconsinan dates at McMechen and Boaz (obtained in 1976 and 1981, respectively) conflict with the early Wisconsinan correlations of S4 and its Negley series

soil in Columbiana County, Ohio (Lessig, 1961b). Either Lessig's correlations of the Negley series soils in Columbiana County cannot be extended downstream, or the Negley series is not exclusively an indicator of early Wisconsinan soils.

The oldest radiocarbon-dated material was found in sediment underlying the S7 surface in the abandoned channel at Weirton. Organic material dated as greater than 40,000 yr. B.P. (no lab number given) was found at the base of colluvium overlying an alluvial deposit. The colluvium covers approximately 10 m (30 ft) of silt and clay (fine-grained Ohio River alluvium) that overlies up to 15 m (50 ft) of sand and gravel (coarse-grained Ohio River alluvium) (D'Appolonia and others, 1967; Gray and others, 1979). The radiocarbon date shows that the overbank sediment is at least older than late Wisconsinan Kent advance (beginning 23,000 yr. B.P.) and could be correlative to the early Wisconsinan Titusville advance, which Fullerton (1986) states begins 79,000 and ends 65,000 yr. B.P., or older. Organic material from an older source could have been incorporated into younger colluvium because the material was found at the base of the colluvium and not in the alluvium itself. If so, the age of the colluvium may not be truly represented, nor is the age of the underlying alluvial sediment truly limited. I feel the age of the surface is between early Wisconsinan and Illinoian, however, because the bedrock and surface

elevations are lower than that of mapped Illinoian terraces, and the bedrock elevations are higher than those underlying Titusville outwash, which correlated as early Wisconsinan by White (1982), and intermediate weathering of soils and gravels (see S7 in the Landforms section).

Two samples of mammoth bone fragments from a sand and gravel pit at Follansbee were submitted to the University of Michigan Museum of Anthropology for radiocarbon dating (Weimer, 1959). The samples (numbered M-513 and M-514) did not produce any dates because of inadequate levels of collagen (D. Kennedy, personal communication, 1986). The samples were apparently lost or destroyed when that radiocarbon lab ceased operations.

CHAPTER 5

GEOLOGIC HISTORY

The geologic history of the lower terraces and floodplains of the upper Ohio River Valley was determined from morphostratigraphy, tracing the surfaces upstream to early-and late-Wisconsinan tills, radiocarbon dates, weathering of the deposits and surfaces, and laboratory analysis of the deposits. However, the interpretation is limited by resolution of the landformtributarys (based mainly on 7.5-minute quadrangle maps with 20 foot contours and some 10 foot supplemental contours).

In general, the present course of the Ohio River was established before the Illinoian glaciation, as mentioned in the Previous Works section. Following the Illinoian, the river eroded downward forming the bedrock floor underlying S7. Sand and gravel alluvium aggraded to the level of S7 to a thickness of about 15 m (50 ft) in the abandoned channel at Weirton (D'Appolonia and others, 1967, fig. 1) and 7.3 m (24 ft) at Beech Bottom. Canadian Shield erratics in the S7 deposits suggest that the alluvium was either outwash or reworked outwash. Colluvium and local tributary alluvium was interbedded with the outwash. Weathering of the gravels, when compared to those mapped as Illinoian (Lessig, 1959a; 1959b; Jacobson, 1985) and early Wisconsinan (Titusville) age (Lessig, 1961b; White, 1982; and White and Totten, 1985),

indicates a post-Illinoian and pre-Wisconsinan age for the S7 deposits. The S7 bedrock and surface elevations are also lower than those mapped as Illinoian (Lessig, 1959a; 1959b; Jacobson, 1985) and higher than those correlated in this study to the early Wisconsinan. This age range is consistant with the greater than 40,000 yr. B.P. date (pre-late Wisconsinan--see Table I) at the abandoned channel at Weirton (D'Appolonia and others, 1967). Therefore, the S7 deposits may be Sangamonian-aged based on morphologic relationships with landforms whose ages are inferred by others.

Following the deposition of S7 alluvium, the broad, shallow, roughly U-shaped valley underlying the present Ohio River and S0 through S6 was scoured, possibly by an unusually severe or rare event. During the scouring, much of the alluvium and bedrock floor of S7 was eroded as the valley width doubled (compared to the width of the Weirton abandoned channel) and channel depth increased by about 21 to 27 m (70 to 90 ft) at Weirton (D'Appolonia and others, 1967, fig. 1). The remains of S7 were abandoned as a terrace. The Weirton channel was abandoned completely when the river was flowing at this new, lower level. Aggradation to the level of S6 probably occurred when meltwater of the Titusville advance, correlated as early Wisconsinan by White and Totten (1965) filled the Ohio River channel and its northern tributaries. At least 45 m (147.6 ft) of outwash from braided streams (as shown by the coarse cut and fill structures) was deposited

across from the mouth of Little Beaver Creek at Georgetown, Pennsylvania (fig. 1). White (1982) correlated the Georgetown deposit to the Titusville advance. The absence of S7 for 35 km (22 miles) downstream from the glaciated tributaries (fig. 8) suggests that S7 was buried there by the thick S6 deposits. The coarse deposits of S6 were later capped by fine-grained overbank alluvium as shown by core records at Georgetown (I. Maurer, personal communication, 1988). S5 formed approximately 6 m (20 ft) below S6 (fig. 8), probably from incision into the S6 alluvial fill, not bedrock. Incision probably occurred from reduced sediment load and a change in stream gradient after or during glacial retreat. In the process of incision, the river migrated vertically and laterally in the valley, reworking and redepositing floodplain material. The coarse lenses of cross-bedded sand and gravel seen at the large sand and gravel pit at Arroyo (18 km or 11 miles downstream from Georgetown) indicate that braided streams deposited S5 sediment at least at the top of West Virginia's northern panhandle (fig. 1). These coarse deposits were later capped by fine-grained overbank alluvium. The apparent absence of S6 from Weirton to just north of the Muskingum River's mouth (fig. 8), suggests that S6 was either eroded or buried by S5 deposits reworked from upstream at a lower gradient. The remaining deposits of S6, from upstream of Beaver River to Weirton and downstream from the Muskingum River, were

abandoned as a terrace as a result of incision. A segment of S5 occurs at the same elevation as S7. The absence of S7 downstream from Beech Bottom (fig. 5) suggests that it was buried during the deposition of S5. The slightly weathered gravels and poorly developed soil in the Follansbee alluvium overlying the elevated bedrock floor (correlative to the S7 bedrock floor) is interpreted as Titusville age. This age designation is based on similarity of weathering to the East End and Newell S5 deposits which were correlated to the Titusville advance (White, 1982). The younger S5 alluvium was probably deposited on the older, scoured S7 surface.

No radiocarbon dates are available for S5 and S6. The time interval between the beginning of Kent glaciation 23,000 yr. B.P. (Fullerton, 1986) and the alluvium deposited on S4 at McMechen (22,340 $\pm$ 960 yr. B.P.) seems too short for the deposition and erosion of S6 and S5, and subsequent deposition of S4 during the Kent advance. Therefore, S6 and S5 probably pre-date the late Wisconsinan Kent advance. They are probably early Wisconsinan rather than middle Wisconsinan, based on terrace correlations to the Titusville Till (White, 1982; White and Totten, 1985), which is designated as early Wisconsinan (White and Totten, 1965).

Near the mouth of the Muskingum River, S6 and S5 have higher surface elevations relative to river level than their counterparts upstream (fig. 8). The higher surfaces could be due to influx of Muskingum River outwash. Additional

Muskingum River outwash deposited at the same time or a later time would increase the volume of the Ohio River alluvium, raise the level of the floodplain, and probably effect the Ohio River flow upstream. The outwash deposits of the Muskingum River would raise the Ohio River base level resulting in a decreased gradient upstream and consequently decreased carrying capacity of the river. As a result, fine sediment, instead of sand and gravel, would be deposited for a distance upstream from the Muskingum River outwash as shown by the 15 m (50 ft) of sand just north of the Wood County boundary. In contrast, sand and gravel was deposited at the S5 level farther upstream along West Virginia's northern panhandle.

During the approximately 42,000 year interstadial between the Titusville and Kent events (Fullerton, 1986), the Ohio River alluvium probably was incised again. There is no evidence for erosion into the bedrock channel at this time. The overbank deposits of S5 and S6 were locally mantled by sand and silt windblown from the wide, flat floodplains after they were abandoned as terraces.

During the Kent advance (correlated as late Wisconsinan by White and Totten, 1965), the channel was filled with sand and gravel outwash to the level of S4, approximately 5 m (16 ft) below S5. Wood dated as 22,340 $\pm$ 960 yr. B.P. under 5.5 m (18 ft) of alluvium at McMechen is evidence for a Kent age of S4. Farther downstream at Boaz, the 13,510 $\pm$ 270 yr. B.P.

dated mammoth bone under 3 m (9 ft) of sand and gravel outwash (Fonner, 1982) indicates continued deposition of coarse sediment after the Kent and equivalent advances in the Killbuck, Cuyahoga, and Scioto sublobes retreated approximately 16,000 yr. B.P. (Fullerton, 1986). The last glacial advance to reach the headwaters of the Muskingum River occurred from approximately 15,000 to 14,300 yr. B.P. (Fullerton, 1986). The Centerburg Till in the Scioto sublobe (Root and others, 1961) and Hiram Till in the Killbuck and Cuyahoga sublobes (White, 1982) were deposited at this time. The post-Centerburg-Hiram advance date of the Boaz mammoth bone shows an approximately 800 year time lag from glacial retreat at the headwaters of the Muskingum River and deposition of the outwash at Boaz. However, this apparent time lag may be the result of intrinsic error of radiocarbon dating and the tendency of bones to date younger than their true age (Stuckenrath, 1977). The time lag, if real, was probably due to the distance of at least 96 kms (60 miles) the outwash had to be transported down the Muskingum River, its tributaries, and the Ohio River to Boaz. The younger sediment from post-Kent advances affecting the Muskingum River may have covered older outwash from upstream on the Ohio River. This may explain why the ages of Ohio River deposits downstream from the Muskingum River's mouth are non-synchronous with equivalent deposits underlying S4, and possibly S3, S5, and S6 upstream on the Ohio River.

Therefore, the Ohio River surfaces downstream from the Muskingum River may not be correlative with those upstream.

A new floodplain, S3, was deposited below the late Wisconsinan Kent-age S4, abandoning S4 as a terrace in the process. After abandonment, S4 was locally mantled by wind-blown deposits. S3 is probably late Wisconsinan in age, based on position below the Kent-aged S4 and above the Holocene-aged S2. The very early Holocene date (9750 $\pm$ 200 yr. B.P.) from wood under 5.5 m (18 ft) of sand and gravel at the Pike Island Lock and Dam S2 site indicates that the higher (and presumably older) S3 surface was probably deposited before the beginning of the Holocene. Correlation of the Chili series soils of S3, and the S3 level at Chester to the Kent advance, (Lessig, 1961b; White 1982; White and Totten, 1985) further substantiates the late Wisconsinan age assignment.

The Ohio River probably migrated laterally and vertically in the valley incising and reworking sediment during the Holocene. In the process, S2 was deposited approximately 4 m (12 ft) lower than S3. S3 remained as a floodplain receiving overbank sediments (fine-grained Ohio River alluvium) during higher annual floods. Without glacial meltwater during the Holocene, the river volume and velocity decreased and thick deposits of fine-grained Ohio River alluvium began to accumulate on the channel deposits of S2 and S3. As the Ohio River continued to incise during the

Holocene, S2 was left as a high floodplain receiving fine-grained Ohio River alluvium during higher annual floods and S3 was left as a third floodplain occasionally receiving overbank sediments. The 9750 ± 200 yr. B.P. wood at Pike Island (Philbrick, 1961) under 5.5 m (18 ft) of coarse-grained Ohio River alluvium (Gray and others, 1979) shows continued reworking of the coarse alluvium during the Holocene. Downstream from the Muskingum River, the 5,000 ± 70 yr. B.P. and 5120 ± 300 yr. B.P. dated wood buried by 4 m (13 ft) of sand and gravel below S2, shows reworking of the coarse sediment later in the Holocene.

S1, and S0 formed by the same process of gradual incision and progressive overbank deposition during the Holocene. S1 is about 6 m (20 ft) decreasing to about 3 m (6 ft) below S2 (fig. 8), S0 is about 4 m (14 ft) below S1 and about 6 m (18 ft) a.l.w. of the Ohio River. The Ohio River still flows over about 3 to 9 m (10 to 30 ft) of coarse-grained Ohio River alluvium as shown by lock and dam core holes (U.S.G.S. unpublished data, Morgantown, West Virginia). All three floodplains and terrace S3 still accumulate overbank sediment during floods: S0 several times a year, S1 once every three or four years, S2 occasionally, and S3 only during record and near-record high floods. S0, S1, and S2 have accumulated an average of 7.7 m (25 ft) of overbank sediments whereas S3 averages a 5 m (16 ft) accumulation (see Appendix II for core hole numbers).

CHAPTER 6

SUMMARY, DISCUSSION, AND CONTRIBUTIONS

SUMMARY

In summary, the late Pleistocene history of the upper Ohio River Valley floodplains and terraces is complex. Four tributaries (Allegheny River, Beaver River, Little Beaver Creek, and Muskingum River) drained four glacial sublobes, (Grand River, Killbuck, Cuyahoga, and Scioto) during the early Wisconsinan Titusville advance and late Wisconsinan Kent advance. Each glaciated tributary added outwash to the Ohio River at different levels and, for the Muskingum River, possibly at different times than the others. The Ohio River adjusted to each new influx of coarse sediment and readjusted after glacial recession by reworking the previously deposited alluvium. As a result, eight fluvial surfaces formed in the upper Ohio River Valley. The uppermost, terraces S6 and S5, may be Titusville in age, as inferred from their position above a very early Kent radiocarbon date on S4. Terrace S7, at the same level as a segment of S5, is probably pre-Titusville, possibly Sangamonian, based on a morphologic relationship to S6, S5, and Illinoian terraces. The lower terraces, S4 and S3, are late Wisconsinan-aged, based on radiocarbon dates at McMechen and Boaz. S2, S1, and S0 are Holocene-aged, as shown by radiocarbon dates at Pike Island Lock and Dam and Blennerhassett Island.

As age and height of the surfaces above river level increases, soil development generally increases. The first floodplains, Holocene S0 and S1, have only incipient soil formation due to frequent interruptions from deposition of new flood sediment. Their strongest horizon is a B with no clay accumulation and only a slight change in color from the A horizon. On the higher Holocene floodplain of S2, soils formed in the overbank deposits have a weak but definite clay accumulation in a Bt or Bx horizon. Soils formed in the sand and gravel on that surface have a moderate amount of clay accumulated in a Bt horizon. The late Wisconsinan Kent-aged S3, on the other hand, is so rarely flooded that soil formation is seldom interrupted. The S3 and S4 (also Kent-aged) terrace soils have a weakly to moderately developed profile with a Bt or Bx in the sand and gravel, overbank deposits, and silt of probable eolian deposition. However, the well sorted sands of possible eolian origin have a poorly developed profile due to their texture. The Chili series of Columbiana County, Ohio can generally be used to correlate the S3 and S4 surfaces to the late Wisconsinan advance (Lessig, 1961b). The soils of the early Wisconsinan Titusville terraces, S5 and S6, are characterized by the Negley series in Columbiana County, Ohio, which has a more well-developed soil profile and a thicker Bt horizon than the Chili series. The Negley series of Columbiana County, Ohio can generally be used to correlate S5 and S6 surfaces to the

early Wisconsinan Titusville advance. Again, the sandy soils have poor profile development due to their texture. S7 is a terrace segment at Beech Bottom with a much more developed soil profile than S6 and S5, possibly due to a Sangamonian age.

All surfaces at the same height are not necessarily the same age. The S7 surface at the Weirton abandoned channel and Beech Bottom are at the same elevation as nearby S5 surfaces, but are probably older (Sangamonian rather than early Wisconsinan). The surfaces on the Ohio River below the mouth of the Muskingum River are covered with younger sediment from that tributary, as shown by the 13,510 $\pm$ 270 yr. B.P. date on the Boaz mammoth bone underlying S4. Upstream at McMechen, the 22,340 $\pm$ 960 yr. B.P. date underlying S4 shows a late Wisconsinan Kent age. The age discrepancy may be from younger Muskingum River outwash covering older Ohio River outwash below the mouth of the Muskingum River. Therefore, Ohio River surfaces downstream from the mouth of the Muskingum River may not be correlative to those upstream on the Ohio River.

The thick, fining-upward deposit underlying each surface consist of a combination of five facies that commonly overlap and interbed. The coarsest, most dominant facies, coarse-grained Ohio River alluvium, is composed of well-rounded gravels (mostly sandstone clasts with about 5% Canadian Shield erratics) and sand. Much of the sediment in

this facies is outwash deposited by a braided stream. Tributary alluvium, composed of sand and gravel with more sand and silt than coarse-grained Ohio River alluvium, occurs as local lenses within outwash and reworked outwash. Colluvium, composed largely of angular sandstone clasts with more shale clasts and silt and clay than the other coarse facies, interfingers with alluvium at the valley walls. Fine-grained Ohio River alluvium composed of overbank sand, silt, and clay caps the coarse deposits. Irregular mantles of sand and silt probably represent an eolian facies.

The texture of near-surface deposits in S2 through S6 fines downstream; from coarse-grained Ohio River alluvium facies in the northern counties of Beaver (Pennsylvania) and Columbiana (Ohio) to fine-grained Ohio River alluvium to the mouth of the Muskingum River. At that point, the surfaces of S4, S5, and S6 are either eolian or alluvial sand or coarse-grained Ohio River alluvium. S2 and S3 are still covered with fine-grained Ohio River alluvium. S0 and S1 are covered by fine-grained Ohio River alluvium in the entire study area. Overall grain size of the coarse-grained Ohio River alluvium facies along West Virginia's northern panhandle also decreases downstream. Within this facies, roundness, and sphericity in the 2.00 mm and 6.35 mm gravels increases downstream.

Height of the surfaces a.l.w. changes downstream with increasing distance from the outwash source. A steep

gradient at the mouth of glaciated tributaries causes the surface elevation of S6 through S3 to decline about 5 to 6 m (15 to 20 ft) for 64 to 81 km (40 or 50 miles) before leveling (fig. 8). Each of these surface levels rise about 2 m (6 ft) before the mouth of the Muskingum River, probably from additional Muskingum River outwash, and maintain that height to the end of the study area. S2 also has a steep gradient at the mouth of the northern glaciated tributaries causing the surface to decline approximately 3 m (10 ft) before leveling. However, S2 does not rise near the Muskingum River. The absence of a rise in the surface level is probably due to lack of outwash or reworked outwash from the Muskingum River during the Holocene. Jacobson and others (1988) also noted steeper gradients on the Ohio River at the mouths of the glacier draining tributaries. S1 and S0 maintain the same height a.l.w. for the entire study area from a constant gradient, indicating the river was eroding through alluvial fill and depositing overbank sediment during the Holocene, rather than glacial outwash.

DISCUSSION

The terraces are probably products of episodic phenomena as well as incision. As the Titusville age and Kent age glaciers melted, large, thick deposits of coarse-grained outwash were transported by braided streams to the mouth of each glacier draining tributary. With the increased

gradient from the thick deposits and the added volume of meltwater, the braided stream was able to carry cobbles and boulders downstream on the Ohio River. The coarser gravels were deposited when the gradient was too low for the Ohio River to carry them, whereas the finer sizes were carried farther downstream. With glacial retreat, sediment load decreased and the response of the Ohio River and the glaciated tributaries was to incise into the alluvial deposits. At this time, the streams migrated, laterally and vertically, to rework and redeposit floodplain material.

Incision could have also been a result of increased gradient by lowering of a local base level. An important base level change was at the mouth of the Muskingum River. As interpreted from the thick sands of S5 just north of the Wood County line, partial blockage by the Muskingum River outwash occurred at least once during Wisconsinan glaciations. After the Ohio River eroded through the outwash, the local base level was lowered on the Ohio River, and the Ohio River and its tributaries incised. Incision continued up tributaries as the system adjusted to the change in the master stream gradient.

The glacial advances and retreats of the early- and late-Wisconsinan, successive phases of alluvial fills, probable local base level controls, and incision created the complex set of terraces present on the Ohio River. In general, each younger deposit is inset in the bench formed by

previous incision. The depositional history is complicated by the younger alluvium from the Muskingum River covering the older deposits from upstream on the Ohio River. The end result is unpaired terraces and floodplains from temporary pauses of incision during lateral and vertical downcutting of the channel. During the Holocene, the graded Ohio River continued to adjust and build up thick overbank deposits on S0, S1, and S2 without the large influx of outwash in the present dynamic equilibrium (Schumm, 1977) of the system.

CONTRIBUTIONS

I contributed to the geologic history of the upper Ohio River Valley by making a more detailed study of the Ohio River surfaces and deposits than any previously published work. I accomplished my goals of characterizing the late Pleistocene and Holocene fluvial surfaces in the 266 km (165 mile) reach of the upper Ohio River Valley and glaciated tributaries. During the course of study, five terraces and three floodplains were identified within 40 m (130 ft) of pre-dam low water level of the Ohio River. Each of the surfaces was characterized vertically and downstream by stratigraphy within the deposit, and soil development. Soil profile development was characterized by one soil profile on S7, a small number of complete soil profiles on S5 (S4 profiles were incomplete), and information published by U. S. D. A. Soil Conservation Service county soil surveys. Five

facies of the valley fill were identified and characterized in the field and verified by sieve analysis and pebble counts. The laboratory analysis also documented a downstream decrease in grain size, and an increase in Canadian Shield erratics and chert for the outwash facies along West Virginia's northern panhandle.

Surfaces were correlated to glacial advances or interglacial stages and the Holocene by combining several methods: tracing surfaces downstream from the early Wisconsinan Titusville age and late Wisconsinan Kent age tills, stratigraphy, soil development, altitude of bedrock floor, height of the surface a.l.w., and known radiocarbon dates. All of the information just described was used to develop a model of the stratigraphy and depositional facies of lower surfaces in the upper Ohio River Valley.

My analysis of the geologic history of the upper Ohio River Valley generally agrees with those of Lessig (1959b, 1961a, 1961b), White (1982), White and Totten (1985), Jacobson (1985), and Jacobson and others (1988) with a few exceptions. First, I segregated each of their single levels of early Wisconsinan, late Wisconsinan, and Holocene surfaces into two, two, and three levels, respectively. Close examination of floodplain and terrace rises and flats in this study indicated that more levels were present than previously shown. Second, although most surfaces that I identified fall within their range of elevations for each age, S4 and S2 do

not. Radiocarbon dates for S4 and S2 show a younger age for each surface: S4 was deposited during the late Wisconsinan Kent advance, not early Wisconsinan Titusville advance, and S2 was deposited during the Holocene advance, not the late Wisconsinan Kent advance. Third, segments of an older channel floor and alluvial fill at the same level as the early Wisconsinan S5 were first identifed and tentatively dated as Sangamonian.

FUTURE WORK

Suggestions for future work to further categorize these levels and refine the geologic history includes: obtain core hole data from private companies for more complete channel morphology, field and laboratory study of complete soil profiles of all surfaces rather than three, and more radiocarbon dates. Continuing the correlation of the surfaces upstream and downstream from the study area would also help complete the geologic history picture.

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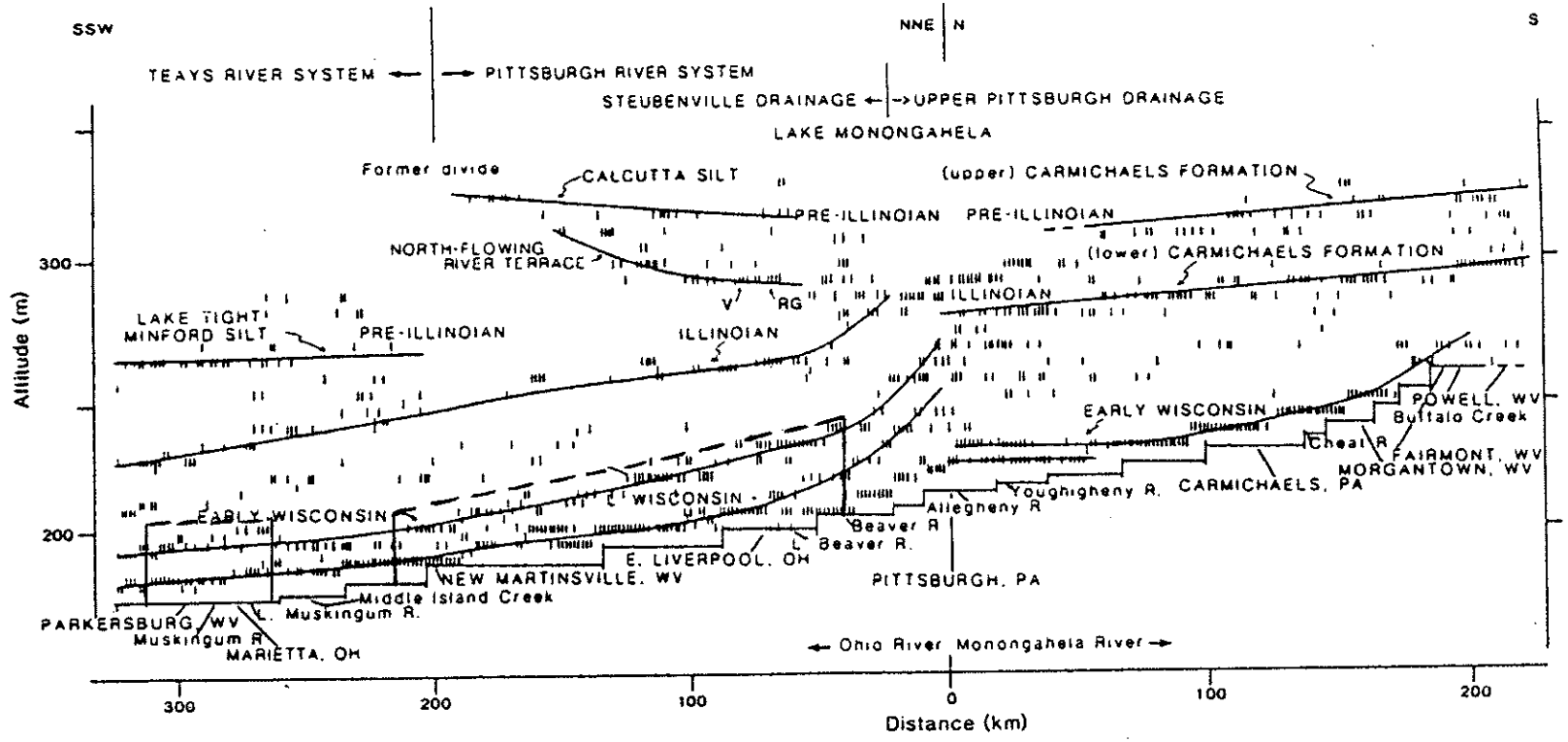
APPENDIX I

STUDY AREA IN RELATIONSHIP TO PREVIOUS WORK OF JACOBSON AND OTHERS (1988) *



- - - = study area

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APPENDIX II

LOCATION OF EXPOSURES, SAMPLE SITES, AND CORE HOLES

SITE OR HOLE NUMBER	7.5 MINUTE QUAD	UTM COORDINATES EAST	UTM COORDINATES NORTH	SURFACE	REF *	EXPOSURES OR HOLE TYPE
BEAV-1	BEAVER, PA	553500	4500140	S5	06	river bank
BEAV-2	BEAVER, PA	553890	4501170	S2	06	floodplain surface
BEAV-3	BEAVER, PA	557250	4504220	S6	06	abandoned s & g pit
S&G-11	MIDLAND, PA	542770	4499000	S5	06	stream bank
ELNO-1	EAST LIVERPOOL NORTH	541300	4498500	S6	10	core hole
ELNO-2	EAST LIVERPOOL NORTH	541520	4498620	S6	10	core hole
ELNO-3	EAST LIVERPOOL NORTH	541520	4498510	S6	10	core hole
ELNO-4	EAST LIVERPOOL NORTH	541340	4498410	S6	10	core hole
ELNO-5	EAST LIVERPOOL NORTH	541030	4499300	S5	01	terrace scarp
ELNO-6	EAST LIVERPOOL NORTH	541330	4499040	S2	01	river bank
EAST END	EAST LIVERPOOL NORTH	538280	4498000	S5	01	terrace scarp
ELSO-1A	EAST LIVERPOOL SOUTH	536940	4495430	S5	01	stream bank
ELSO-1B	EAST LIVERPOOL SOUTH	536920	4495400	S5	01	stream bank
ELSO-1C	EAST LIVERPOOL SOUTH	536870	4495390	S5	01	stream bank
ELSO-2	EAST LIVERPOOL SOUTH	537250	4495720	S5	01	road cut
ELSO-3	EAST LIVERPOOL SOUTH	537410	4495700	S5	01	terrace scarp
ELSO-4A	EAST LIVERPOOL SOUTH	537170	4495520	S5	01	terrace scarp
ELSO-4B	EAST LIVERPOOL SOUTH	537200	4495480	S5	01	auger hole
ELSO-5	EAST LIVERPOOL SOUTH	536540	4495290	S5	01	auger hole
ELSO-6	EAST LIVERPOOL SOUTH	537080	4495380	S5	01	auger hole
ELSO-7	EAST LIVERPOOL SOUTH	537120	4495340	S5	01	auger hole
ELSO-8	EAST LIVERPOOL SOUTH	536840	4495260	S5	01	auger hole
ELSO-9	EAST LIVERPOOL SOUTH	536420	4495470	S3	01	auger hole
ELSO-10	EAST LIVERPOOL SOUTH	531960	4495930	S2	01	auger hole
ELSO-11	EAST LIVERPOOL SOUTH	532900	4495870	S5	01	auger hole
ELSO-12	EAST LIVERPOOL SOUTH	534020	4496480	S3	01	river bank
ELSO-13	EAST LIVERPOOL SOUTH	533940	4496510	S4	01	auger hole

SITE OR HOLE NUMBER	7.5 MINUTE QUAD	UTM COORDINATES EAST	NORTH	SURFACE	REF *	EXPOSURES OR HOLE TYPE
ELSO-14	EAST LIVERPOOL SOUTH	533950	4496390	S5	01	auger hole
ELSO-15B	EAST LIVERPOOL SOUTH	534020	4496490	S4	01	auger hole
ELSO-15A	EAST LIVERPOOL SOUTH	533750	4496420	S5	01	auger hole
ELSO-16	EAST LIVERPOOL SOUTH	534070	4496510	S4	01	auger hole
ELSO-17	EAST LIVERPOOL SOUTH	534160	4496520	S4	01	auger hole
ELSO-18	EAST LIVERPOOL SOUTH	533990	4496340	S5	01	stream bank
ELSO-19	EAST LIVERPOOL SOUTH	533930	4496290	S5	01	auger hole
ELSO-20	EAST LIVERPOOL SOUTH	533930	4496320	S5	01	auger hole
ELSO-21A	EAST LIVERPOOL SOUTH	536640	4495380	S5	01	auger hole
ELSO-21B	EAST LIVERPOOL SOUTH	536770	4495380	S5	01	auger hole
ELSO-22A	EAST LIVERPOOL SOUTH	536560	4495250	S5	01	auger hole
ELSO-22B	EAST LIVERPOOL SOUTH	536680	4495260	S5	01	auger hole
CHESTER	EAST LIVERPOOL SOUTH	537300	4495840	S5	01	borrow sand & gravel pit
NEWELL 1	EAST LIVERPOOL SOUTH	532460	4496040	S5	01	borrow sand & gravel pit
NEWELL 2	EAST LIVERPOOL SOUTH	532180	4495800	S5	01	borrow sand & gravel pit
ELSO-23A	EAST LIVERPOOL SOUTH	535120	4496230	S2	01	terrace scarp
ELSO-23B	EAST LIVERPOOL SOUTH	535230	4496120	S2	01	terrace scarp
ELSO-24	EAST LIVERPOOL SOUTH	532860	4496000	S5	01	auger hole
ELSO-25	EAST LIVERPOOL SOUTH	533090	4496180	S5	01	auger hole
029-114	EAST LIVERPOOL SOUTH	537520	4496140	S3	05	oil & gas well
029-115	EAST LIVERPOOL SOUTH	537400	4496100	S3	05	oil & gas well
029-117	EAST LIVERPOOL SOUTH	537460	4496100	S3	05	oil & gas well
029-118	EAST LIVERPOOL SOUTH	536100	4495500	S3	05	oil & gas well
1-1-1	EAST LIVERPOOL SOUTH	536220	4495540	S3	02	water well
1-1-8	EAST LIVERPOOL SOUTH	533700	4496660	S4	02	water well
DAM-9	EAST LIVERPOOL SOUTH	532610	4483610	Channel	02	core hole
WELLS-26	WELLSVILLE	529060	4492840	S4	01	auger hole
WELLS-27	WELLSVILLE	528960	4492840	S5	01	auger hole
WELLS-28	WELLSVILLE	529470	4492120	S5	01	auger hole
WELLS-29	WELLSVILLE	529510	4491980	S5	01	road cut
WELLS-30	WELLSVILLE	530780	4495200	S2	01	floodplain surface
ARROYO	WELLSVILLE	529680	4490880	S5	01	active sand & gravel pit

SITE OR HOLE NUMBER	7.5 MINUTE QUAD	UTM COORDINATES EAST	NORTH	SURFACE	REF *	EXPOSURES OR HOLE TYPE
STANDARD SLAG-1	WELLSVILLE	529380	4491140	S5	10	core hole average
STANDARD SLAG-2	WELLSVILLE	529870	4490520	S3	10	core hole average
029-88	WELLSVILLE	530200	4490350	S3	05	oil & gas well
029-82	WELLSVILLE	531140	4490920	S2	05	oil & gas well
WEIR-1	WEIRTON	535270	4472400	S7	01	terrace scarp
WEIR-2	WEIRTON	535000	4472340	S7	01	terrace scarp
WEIR-3	WEIRTON	534540	4471800	S7	01	terrace scarp
WEIR-4	WEIRTON	534370	4471250	S7	01	terrace scarp
D'APPOLONIA-1	WEIRTON	533120	4477220	S2	10	core hole average
D'APPOLONIA-2	WEIRTON	535100	4473700	S5	10	core hole average
DAM 10-5	WEIRTON	532720	4470040	Channel	02	core hole
C-26	WEIRTON	533110	4469620	Channel	12	core hole
C-40	WEIRTON	533260	4469720	S1	12	core hole
C-42	WEIRTON	533360	4469840	S1	12	core hole
WEIR-5	WEIRTON	532260	4470530	S5	09	abandoned s & g pit
S & G-14	WEIRTON	533660	4482600	S5	06	terrace surface
KNOX-1	KNOXVILLE	531680	4471000	S5	09	abandoned s & g pit
STEUB-1	STEUBENVILLE EAST	533820	4465580	S5	01	road cut
STEUB-2	STEUBENVILLE EAST	534360	4465100	S5	01	terrace surface
FOLLANSBEE SAND	STEUBENVILLE EAST	534140	4465440	S5	01	borrow sand pit
FOLLANSBEE S & G	STEUBENVILLE EAST	534000	4465220	S5	01	abandoned s & g pit
STEUB-3	STEUBENVILLE EAST	533420	4459670	S7	01	stream bank
STEUB-4	STEUBENVILLE EAST	533530	4459540	S7	01	auger hole
STEUB-5	STEUBENVILLE EAST	533420	4458880	S7	01	terrace scarp
STEUB-6	STEUBENVILLE EAST	533600	4458880	S7	01	auger hole
STEUB-7	STEUBENVILLE EAST	533530	4458860	S7	01	auger hole
STEUB-8	STEUBENVILLE EAST	533500	4458850	S7	01	auger hole
STEUB-9	STEUBENVILLE EAST	533450	4458900	S7	01	auger hole
STEUB-10	STEUBENVILLE EAST	533320	4458070	S7	01	auger hole
009-16	STEUBENVILLE EAST	534400	4465020	S5	05	oil & gas well

SITE OR HOLE NUMBER	7.5 MINUTE QUAD	UTM COORDINATES EAST	NORTH	SURFACE	REF *	EXPOSURES OR HOLE TYPE
009-21	STEUBENVILLE EAST	534180	4465100	S5	05	oil & gas well
009-22	STEUBENVILLE EAST	533960	4465320	S5	05	oil & gas well
009-24	STEUBENVILLE EAST	534000	4465620	S5	05	oil & gas well
009-56	STEUBENVILLE EAST	534220	4465480	S5	05	oil & gas well
2-1-13	STEUBENVILLE EAST	534100	4463780	S2	02	water well
2-2-1	STEUBENVILLE EAST	532920	4458280	S2	02	water well
S & G-18	STEUBENVILLE WEST	530680	4456200	S2	06	abandoned s & g pit
BEECH BOTTOM	TILTONSVILLE	529660	4453790	S7	01	abandoned s & g pit
2-3-1	TILTONSVILLE	529180	4452860	S2	02	water well
2-3-9	TILTONSVILLE	529940	4451090	S2	02	water well
3-1-8	TILTONSVILLE	524870	4442620	S0	02	water well
3-1-54	TILTONSVILLE	525020	4441800	S1	02	water well
GLENOVA BORING	TILTONSVILLE	525390	4441660	S4	10	core hole
POWER	TILTONSVILLE	529150	4451310	S4	01	abandoned s & g pit
TILT-1	TILTONSVILLE	529610	4453260	S7	01	stream bank
TILT-2	TILTONSVILLE	529660	4453140	S7	01	building foundation
TILT-3	TILTONSVILLE	529510	4453000	S7	01	terrace scarp
TILT-4	TILTONSVILLE	529440	4452890	S7	01	auger hole
TILT-5	TILTONSVILLE	529720	4452770	S7	01	auger hole
TILT-6	TILTONSVILLE	529660	4452870	S7	01	auger hole
TILT-7	TILTONSVILLE	529600	4452940	S7	01	auger hole
TILT-8	TILTONSVILLE	529530	4452620	S7	01	terrace scarp
TILT-9	TILTONSVILLE	529220	4451310	S4	01	terrace surface
3-1-71	WHEELING	525180	4441190	S0	02	water well
3-1-63	WHEELING	525360	4440200	S1	02	water well
3-1-40	WHEELING	525190	4438970	S0	02	core hole
3-3-33	WHEELING	522960	4436960	S0	02	water well
3-4-2	WHEELING	523300	4436740	S3	02	water well
3-7-3	WHEELING	523360	4434400	S1	02	water well
069-11	WHEELING	522850	4434220	S1	05	oil & gas well

SITE OR HOLE NUMBER	7.5 MINUTE QUAD	UTM COORDINATES EAST	NORTH	SURFACE	REF *	EXPOSURES OR HOLE TYPE
3-8-5	WHEELING	523230	4431900	S1	02	core hole
3-10-19	WHEELING	523160	4431550	S1	02	core hole
S & G-1	WHEELING	522280	4430950	S1	06	floodplain surface
MOUND-1	MOUNDSVILLE	523040	4426070	S3	01	terrace surface
MOUND-2	MOUNDSVILLE	522110	4419440	S5	02	water well
MOUND-3	MOUNDSVILLE	522130	4419670	S5	01	grave
MOUND-4	MOUNDSVILLE	522070	4419650	S5	01	grave
MOUND-5	MOUNDSVILLE	523050	4419040	S5	01	terrace scarp
4-1-4	MOUNDSVILLE	522510	4426640	S0	02	core hole
4-1-1	MOUNDSVILLE	522700	4425730	S3	02	water well
4-1-2	MOUNDSVILLE	522700	4425730	S3	02	water well
4-1-3	MOUNDSVILLE	522700	4425730	S3	02	water well
13-12	MOUNDSVILLE	521810	4417310	S1	04	core hole
MCMECHEN	MOUNDSVILLE	523050	4425680	S4	10	bore hole
MOUND-6	MOUNDSVILLE	522550	4419450	S4	01	terrace surface
12-97	BUSINESSBURG	520240	4418040	S4	04	core hole
12-94	BUSINESSBURG	520680	4417730	S3	04	core hole
12-100	BUSINESSBURG	520580	4417510	S3	04	core hole
13-15	BUSINESSBURG	520560	4417400	Channel	04	core hole
13-16	BUSINESSBURG	520540	4417190	Channel	04	core hole
DILLES BOTTOM	BUSINESSBURG	519280	4418150	S5	01	active s & g pit
12-76	BUSINESSBURG	517840	4418040	S3	04	core hole
4-5-10	BUSINESSBURG	517370	4418300	S0	02	water well
12-75	BUSINESSBURG	517090	4418300	S0	04	core hole
ANLINE TH-1	BUSINESSBURG	516590	4417710	S1	02	water well
12-95	BUSINESSBURG	516750	4417510	S3	04	core hole
12-66	BUSINESSBURG	516860	4417500	S3	04	core hole
12-77	BUSINESSBURG	517160	4417020	S5	04	core hole
12-78	BUSINESSBURG	517160	4416900	S5	04	core hole
12-79	BUSINESSBURG	517880	4416060	S5	04	core hole
12-80	BUSINESSBURG	517460	4415620	S3	04	core hole

SITE OR HOLE NUMBER	7.5 MINUTE QUAD	UTM COORDINATES EAST	NORTH	SURFACE	REF *	EXPOSURES OR HOLE TYPE
BUSI-1	BUSINESSBURG	520880	4422520	S3	01	building foundation
BUSI-2	BUSINESSBURG	517680	4416400	S5	01	gully
BUSI-3	BUSINESSBURG	520140	4418520	S5	01	terrace surface
91-38	POWHATAN POINT	515560	4411630	S3	04	core hole
13-27	POWHATAN POINT	515600	4408760	S4	04	core hole
4-7-30	POWHATAN POINT	515340	4406720	Channel	02	water well
4-7-34	POWHATAN POINT	515510	4406270	Channel	02	water well
4-7-37	POWHATAN POINT	515740	4405340	Channel	02	water well
4-7-45	POWHATAN POINT	514720	4404680	Channel	02	water well
91-41	POWHATAN POINT	513970	4404930	S5	04	core hole
4-7-56	POWHATAN POINT	513820	4403850	Channel	02	water well
S & G-24	POWHATAN POINT	513120	4404220	S5	06	abandoned s & g pit
139-80	POWHATAN POINT	511750	4401050	S3	04	core hole
139-81	POWHATAN POINT	511700	4400940	S3	04	core hole
139-78	POWHATAN POINT	511610	4400820	S2	04	core hole
4-7-68	POWHATAN POINT	511920	4400320	S3	02	water well
POWH-1	POWHATAN POINT	513750	4404690	S5	08	abandoned s & g pit
NEWM-1	NEW MARTINSVILLE	512840	4392250	S5	01	terrace surface
NEWM-2	NEW MARTINSVILLE	512830	4392040	S5	01	gully
NEWM-3	NEW MARTINSVILLE	512140	4391470	S4	01	grave
NEW MARTINSVILLE	NEW MARTINSVILLE	512220	4391080	S4	01	abandoned s & g pit
4-7-57	NEW MARTINSVILLE	512610	4399660	S3	02	water well
4-7-14	NEW MARTINSVILLE	512780	4399180	S2	02	water well
051-173	NEW MARTINSVILLE	513080	4398880	S2	05	oil and gas well
13-20	NEW MARTINSVILLE	513520	4398340	S3	04	core hole
139-75	NEW MARTINSVILLE	513850	4397940	S2	04	core hole
139-76	NEW MARTINSVILLE	514140	4397880	S2	04	core hole
139-74	NEW MARTINSVILLE	514150	4397320	S2	04	core hole
103-188	NEW MARTINSVILLE	515120	4396040	S3	05	oil & gas well
103-193	NEW MARTINSVILLE	515000	4395780	S2	05	oil & gas well
103-192	NEW MARTINSVILLE	515020	4395820	S2	05	oil & gas well

SITE OR HOLE NUMBER	7.5 MINUTE QUAD	UTM COORDINATES EAST	NORTH	SURFACE	REF *	EXPOSURES OR HOLE TYPE
103-218	NEW MARTINSVILLE	515070	4395740	S2	05	oil & gas well
91-62	NEW MARTINSVILLE	514120	4395040	S4	04	core hole
91-63	NEW MARTINSVILLE	513380	4394470	S4	04	core hole
103-240	NEW MARTINSVILLE	512270	4392430	S4	05	oil & gas well
S & G-23	NEW MARTINSVILLE	512160	4390760	S4	05	abandoned s & g pit
6-5-54	NEW MARTINSVILLE	511990	4389040	S2	02	water well
6-5-51	NEW MARTINSVILLE	511470	4387970	S0	02	water well
NEW MART TEST	NEW MARTINSVILLE	512120	4388360	S1	02	water well
6-5-55	NEW MARTINSVILLE	511770	4387550	S2	02	water well
L & D-15	NEW MARTINSVILLE	511380	4386240	S1	02	core hole
6-5-57	NEW MARTINSVILLE	511060	4386240	S0	02	core hole
NEWM-4	NEW MARTINSVILLE	513070	4399140	S3	07	abandoned s & g pit
NEWM-5	NEW MARTINSVILLE	513200	4398860	S3	03	abandoned s & g pit
S & G-25	NEW MARTINSVILLE	512100	4387360	S0	06	stream bank
103-463	PADEN CITY	510600	4387440	S1	05	oil & gas well
103-458	PADEN CITY	509380	4384720	S3	05	oil & gas well
S & G-33	PADEN CITY	508830	4385590	S4	06	adandoned s & g pit
095-158	PADEN CITY	505440	4383190	S4	05	oil & gas well
095-159	PADEN CITY	505440	4383060	S4	05	oil & gas well
107-1133	VALLEY MILLS	466930	4353780	S2	05	oil & gas well
27-2-15	VALLEY MILLS	465450	4356390	Channel	02	core hole
27-2-32	VALLEY MILLS	465180	4357180	Channel	02	core hole
107-1138	VALLEY MILLS	465080	4357090	S2	04	oil & gas well
27-2-26	VALLEY MILLS	464980	4358000	Channel	02	core hole
S & G-51	VALLEY MILLS	457940	4358080	S4	06	terrace surface
S & G-50	VALLEY MILLS	458120	4358590	S5	06	terrace surface
107-747	VALLEY MILLS	456960	4358140	S1	05	oil & gas well
S & G-49	VALLEY MILLS	457040	4356810	S4	06	terrace scarp
27-2-29	MARIETTA	464870	4358800	Channel	02	core hole
S & G-48	MARIETTA	464150	4359750	S1	06	abandoned s & g pit

SITE OR HOLE NUMBER	7.5 MINUTE QUAD	UTM COORDINATES EAST	NORTH	SURFACE	REF *	EXPOSURES OR HOLE TYPE
MARI-1	MARIETTA	461580	4360470	S6	07	abandoned s & g pit
S & G-42	MARIETTA	457760	4370100	S6	06	sand & gravel pit
MARI-2	MARIETTA	462100	4360570	S6	01	road cut
MARI-3	MARIETTA	461880	4360600	S6	01	road cut
MARI-4	MARIETTA	461750	4360680	S6	01	road cut
MARI-5	MARIETTA	459070	4364180	S4	01	road cut
MARI-6	MARIETTA	459490	4366580	S5	09	abandoned s & g pit
MARI-7	MARIETTA	459590	4367200	S5	09	abandoned s & g pit
MARI-8	MARIETTA	458080	4369450	S6	09	abandoned s & g pit
MARI-9	MARIETTA	457920	4369580	S6	09	abandoned s & g pit
MARI-10	MARIETTA	457750	4369960	S6	09	abandoned s & g pit
MARI-11	MARIETTA	457780	4370510	S5	09	abandoned s & g pit
MARI-12	MARIETTA	457700	4370510	S6	09	abandoned s & g pit
MARI-13	MARIETTA	457350	4370570	S3	09	active sand & gravel pit
BOAZ	PARKERSBURG	456680	4356720	S4	01	active sand & gravel pit
PARK-1	PARKERSBURG	453490	4352280	S5	01	road cut
PARK-2	PARKERSBURG	453290	4351960	S5	01	road cut
PARK-3	PARKERSBURG	453390	4349180	S5	07	abandoned s & g pit
107-578	PARKERSBURG	456340	4357450	S1	04	oil & gas well
107-561	PARKERSBURG	455460	4356760	S1	04	oil & gas well
S & G-52	PARKERSBURG	453700	4357340	S4	06	abandoned s & g pit
107-434	PARKERSBURG	453820	4355800	S4	05	oil & gas well
107-438	PARKERSBURG	453920	4355560	S4	05	oil & gas well
107-441	PARKERSBURG	453600	4355580	S4	05	oil & gas well
27-1-11	PARKERSBURG	452100	4353650	S0	02	core hole
27-3-24	PARKERSBURG	451530	4349610	S0	02	water well
27-3-11	PARKERSBURG	451770	4349610	S2	02	water well
26-3-28	PARKERSBURG	451800	4348580	S2	02	water well
27-3-2	PARKERSBURG	451660	4348320	S0	02	water well
S & G-36	PARKERSBURG	452750	4347890	S6	02	terrace surface
PARK-4	PARKERSBURG	450380	4348220	S5	07	abandoned s & g pit
S & G-35	PARKERSBURG	455360	4346580	S6	06	road cut

SITE OR HOLE NUMBER	7.5 MINUTE QUAD	UTM COORDINATES EAST	NORTH	SURFACE	REF *	EXPOSURES OR HOLE TYPE
27-3-23	PARKERSBURG	451600	4346210	S2	02	water well
DUPONT-436	LITTLE HOCKING	444110	4347320	S2	10	water well
S & G-53	LITTLE HOCKING	446510	4347960	S4	06	terrace surface
DUPONT TH-5	LITTLE HOCKING	442180	4346940	S0	02	core hole
DUPONT TH-4	LITTLE HOCKING	441730	4346730	S1	02	core hole
DUPONT TH-1	LITTLE HOCKING	441270	4346570	S0	02	core hole
107-709	LITTLE HOCKING	441780	4346210	S4	05	oil & gas well
S & G-43	LITTLE HOCKING	440690	4344620	S4	06	terrace surface
DUPONT TH-3	LITTLE HOCKING	441840	4346510	S4	02	core hole
107-727	LUBECK	441700	4342940	S6	05	oil & gas well
107-266	LUBECK	441260	4342280	S1	05	oil & gas well
107-265	LUBECK	441760	4342250	S6	05	oil & gas well
107-260	LUBECK	440820	4341620	S4	05	oil & gas well
S & G-54	LUBECK	439890	4342420	S5	06	abandoned s & g pit

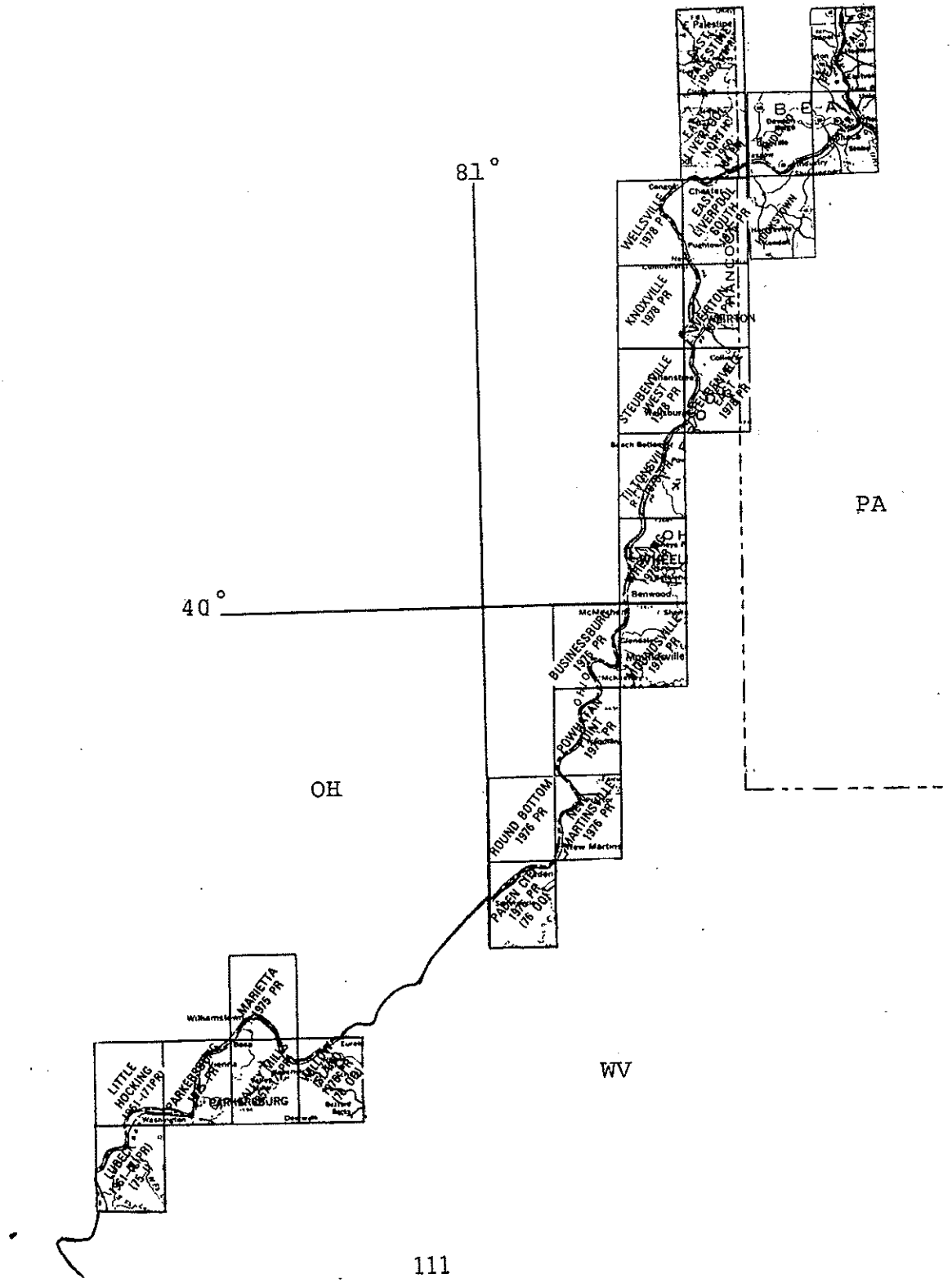
Note: s & g = sand and gravel

* REFERENCES (WVGS = available as in-house files at the West Virginia Geological Survey)

01 Field work (WVGS)
02 U.S. Geological Survey in-house files, Morgantown
03 Core of Engineers charts (WVGS)
04 Coal Resources (WVGS)
05 Oil and gas wells (WVGS)
06 Arkle study open-file report (WVGS)
07 U.S.D.A. Soil Conservation County Soil Surveys
08 Outdated 7.5-minute quadrangles (WVGS)
09 Current series 7.5-minute quadrangles (WVGS)
10 Company core-hole data (WVGS)
11 WVGS County Report
12 WV Department of Highways (WVGS)

APPENDIX III

7.5-MINUTE QUADRANGLES IN STUDY AREA



APPENDIX V

PEBBLE COUNTS

SAMPLE SITE	SAMPLE NO.	SIZE (MM)	% SPHERICITY				% ROUNDNESS					% LITHOLOGY									NO. PEB	TOT. PEB
			0.3	0.5	0.7	0.9	WR	R	SR	SA	A	SS	SH-SL	LS	CN	QT	CH	QZ	CYS	OT		
CHESTER	CS-85-4	6.35	6.0	16.7	25.8	51.5	36.4	12.1	24.2	15.2	12.1	60.5	6.1	19.7	3.0	1.5	-	7.6	1.5	-	66	
	CS-85-4	2.00										62.5	13.4	1.8	3.1	7.1	6.3	1.3	4.5	-	224	
	CS-85-5	6.35	7.6	21.2	28.0	43.2	33.9	27.1	21.2	17.0	0.8	70.5	2.5	5.9	11.0	0.8	1.7	5.9	1.7	-	118	
	CS-85-5	2.00										81.0	1.5	4.5	1.5	2.5	4.5	1.0	3.0	0.5	200	
	CS-85-6A	6.35	5.7	17.9	31.4	45.0	32.9	15.7	33.6	14.3	3.5	75.0	-	10.7	1.4	0.7	7.9	3.6	0.7	-	140	
	CS-85-6A	2.00										76.5	10.5	3.5	0.5	6.0	1.0	0.5	1.5	-	200	
	CS-85-6D	6.35	9.2	21.6	27.5	41.7	33.9	30.7	22.9	11.5	0.9	77.1	4.1	6.4	-	1.4	4.0	5.1	1.9	-	218	
	CS-85-6D	2.00										73.0	4.5	7.5	1.0	3.5	8.5	-	1.5	-	200	
	CS-85-6E	6.35	5.2	12.2	34.1	48.5	26.6	29.3	19.2	24.0	0.9	77.3	6.1	-	1.3	1.8	6.9	3.5	3.1	-	229	
	CS-85-6E	2.00										75.2	5.9	1.5	0.5	4.5	6.4	1.0	4.0	1.0	202	
	CS-85-6F	6.35	6.4	16.4	15.2	62.0	25.3	32.9	16.5	22.8	2.5	87.3	3.8	-	1.3	-	3.8	1.3	2.5	-	79	
	CS-85-6F	2.00										77.0	6.0	-	-	3.5	9.5	0.5	3.5	-	200	
	CS-85-6G	6.35	5.0	17.3	20.7	57.0	25.2	24.8	30.0	19.2	0.8	80.8	6.8	-	0.4	1.1	7.9	0.8	2.2	-	266	
	CS-85-6G	2.00										77.0	7.0	-	2.0	2.5	10.5	-	0.5	0.5	200	
		AVG.	6.4	17.6	26.1	49.9	30.6	24.7	23.9	17.7	3.1	75.1	5.6	4.4	1.9	2.8	5.6	2.3	2.3	0.1		2542
NEWELL 2	CS-85-7	6.35	4.3	18.6	21.4	55.7	35.6	42.9	8.6	10.0	2.9	71.4	1.4	8.6	4.3	1.4	5.7	2.9	4.3	-	70	
	CS-85-7	2.00										66.5	4.9	4.4	1.0	11.6	6.8	1.4	3.4	-	206	
	CS-85-9	6.35	2.1	17.2	9.9	70.3	25.0	24.0	24.0	27.0	-	78.1	2.6	3.7	3.1	1.6	5.7	2.1	3.1	-	192	
	CS-85-9	2.00										71.5	11.2	1.4	3.3	3.3	7.4	-	1.9	-	214	
		AVG.	3.2	17.9	15.8	63.1	30.3	33.4	16.3	18.5	1.5	71.9	5.0	4.5	2.9	4.5	6.4	1.5	3.2			682

SAMPLE SITE	SAMPLE NO.	SIZE (MM)	% SPHERICITY				% ROUNDNESS					% LITHOLOGY									NO. PEB	TOT. PEB
			0.3	0.5	0.7	0.9	WR	R	SR	SA	A	SS	SH-SL	LS	CN	QT	CH	QZ	CYS	OT		
FOLLANSBEE	CS-85-13	6.35	3.1	20.0	9.2	67.7	9.2	35.4	36.9	17.0	1.5	86.1	6.2	-	6.2	-	-	1.5	-	-	65	
	CS-85-13	2.00										78.4	6.3	-	12.1	1.8	0.5	0.9	-	-	300	
	CS-85-15	6.35	3.6	27.3	27.3	41.8	1.8	36.4	25.5	32.7	3.6	85.5	-	-	7.3	1.8	3.6	1.8	-	-	55	
	CS-85-15	2.00										75.0	6.0	-	8.0	1.5	4.5	1.5	3.5	-	200	
	CS-85-16B	6.35	12.0	25.0	19.6	43.4	6.5	10.9	37.0	44.6	1.0	66.3	2.2	20.7	9.8	-	1.0	-	-	-	92	
	CS-85-16B	2.00										70.3	3.4	7.4	14.9	0.5	2.0	0.5	1.0	-	202	
	CS-85-18A	6.35	6.3	19.0	11.4	63.3	3.8	22.8	51.9	20.2	1.3	70.9	5.1	20.2	3.8	-	-	-	-	-	79	
	CS-85-18A	2.00										66.5	6.5	13.5	12.0	-	-	0.5	1.0	-	200	
		AVG.	6.3	22.8	16.9	54.0	5.3	26.4	37.8	28.6	1.9	74.8	4.5	7.8	9.2	0.7	1.5	0.8	0.7	-	-	1193
BEECH BOTTOM	CS-86-33B	6.35	7.4	14.7	22.1	54.7	20.0	19.0	28.4	32.6	-	74.5	9.0	-	4.5	4.0	3.0	1.0	4.0	-	95	
	CS-86-33B	2.00										75.8	6.3	1.1	6.3	2.1	2.1	2.1	4.2	-	200	
	CS-86-33F	6.35	2.8	6.5	26.9	63.8	50.0	21.3	17.6	9.3	1.9	76.9	2.8	0.9	0.9	4.6	4.6	2.8	5.6	0.9	108	
	CS-86-33F	2.00										69.5	5.5	-	6.0	5.5	4.0	0.5	8.0	1.0	200	
	CS-86-33L	6.35	7.4	23.1	28.4	41.1	3.2	11.6	27.4	29.5	28.3	51.6	22.1	6.3	15.8	-	4.2	-	-	-	95	
	CS-86-33L	2.00										59.5	19.5	3.0	14.0	1.5	1.5	0.5	-	0.5	200	
		AVG.	6.0	15.0	25.8	53.2	24.4	17.3	24.5	23.8	10.0	68.0	10.4	2.3	7.8	3.0	3.2	1.2	3.6	0.5		898

SAMPLE SITE	SAMPLE NO.	SIZE (MM)	% SPHERICITY				% ROUNDNESS					% LITHOLOGY									NO. PEB	TOT. PEB
			0.3	0.5	0.7	0.9	WR	R	SR	SA	A	SS	SH-SL	LS	CN	QT	CH	QZ	CYS	OT		
DILLES	CS-85-24	6.35	6.5	7.1	11.7	74.7	53.9	13.6	14.9	13.7	3.9	39.4	1.4	10.1	1.9	2.9	30.3	5.8	7.2	1.0	54	
BOTTOM	CS-85-24	2.00										50.2	2.5	6.5	-	10.4	18.9	3.5	8.0	-	201	
	CS-85-25	6.35	4.6	9.2	18.5	67.7	45.4	27.7	23.1	3.8	-	52.3	0.8	5.4	-	2.3	25.4	8.5	3.8	1.5	130	
	CS-85-25	2.00										65.0	2.5	1.0	2.0	7.0	10.5	6.5	5.5	-	200	
		AVG	5.6	8.2	15.1	71.1	49.6	20.6	19.0	8.8	2.0	51.7	1.8	5.8	1.0	5.7	21.3	6.1	6.1	0.5		585
NEW	CS-85-28	6.35	4.0	10.5	15.8	69.7	60.5	26.3	11.8	1.3	-	55.3	1.3	5.2	-	1.3	22.4	1.3	13.2	-	76	
MARTINS-	CS-85-28	2.00										61.0	-	1.0	3.0	11.5	15.5	1.0	6.5	0.5	200	
VILLE	CS-85-29	6.35	-	12.6	24.2	63.2	46.2	43.2	7.4	3.2	-	59.0	-	8.4	-	6.3	21.0	4.2	1.1	-	95	
		AVG.	4.0	11.0	20.0	65.1	53.4	34.8	9.6	2.2	-	58.4	0.4	4.9	1.0	6.4	19.6	2.2	6.9	0.2		371

APPENDIX VII

GRAIN-SIZE DATA
(% PHI)

		COARSER THAN																	FINER THAN
		-GRAVEL-						-SAND-						-SILT-				CLAY-	
SITE (DOWNSTREAM)	SAMPLE CS-	-4.7	-4.3	-3.7	-2.7	-2.0	-1.0	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	10.0
EAST END	85-10	8.8	8.2	6.7	0.0	0.0	0.0	4.5	9.7	11.0	4.0	3.1	35.9	1.9	1.5	1.4	1.4	0.9	1.1
	85-11	15.9	8.5	8.9	13.6	6.9	7.4	6.2	8.6	10.2	3.6	1.0	2.0	0.9	0.9	0.7	0.6	0.5	3.7
	85-12A	78.7	1.7	2.0	4.3	1.9	2.0	1.8	2.1	2.7	1.4	1.4	0.0	0.4	0.3	0.2	0.1	0.1	0.0
	85-12B	81.1	2.6	2.6	3.1	1.5	1.5	1.0	1.3	2.8	0.9	0.4	0.4	0.2	0.1	0.1	0.1	0.0	0.2
	85-12C	75.5	5.0	2.8	3.7	2.1	2.3	2.1	1.5	2.1	1.0	0.4	0.4	0.4	0.2	0.2	0.1	0.1	0.3
	85-12D	80.4	2.2	3.0	3.5	1.6	1.9	1.9	1.5	0.2	0.7	0.3	2.0	0.0	0.2	0.1	0.1	0.1	0.3
CHESTER	85-3	31.8	6.7	7.7	15.4	7.5	7.8	6.0	7.0	6.0	1.3	0.6	0.5	0.3	0.3	0.3	0.1	0.2	0.4
	85-4	0.0	0.8	6.0	6.9	4.2	6.4	11.3	39.8	21.0	1.2	0.3	0.7	0.6	0.2	0.0	0.0	0.2	0.7
	85-5	26.2	8.7	8.7	13.2	7.5	8.2	3.8	2.7	8.9	4.7	2.0	1.3	1.0	0.6	0.6	0.4	0.1	1.4
	85-6A	7.4	7.7	9.8	16.5	10.6	10.3	4.4	3.3	9.6	9.3	3.4	1.7	1.3	1.0	0.8	0.7	0.8	1.6
	85-6C	0.0	0.0	0.0	0.7	0.0	0.1	0.7	8.4	34.8	22.5	21.2	7.3	1.0	0.8	0.5	0.5	1.0	0.5
	85-6D	17.2	3.0	9.2	15.7	9.2	8.6	3.2	3.1	12.3	8.2	3.0	1.6	1.2	1.2	0.5	0.5	0.7	1.8
	85-6E	7.9	19.1	15.0	19.4	12.1	12.6	2.5	1.3	2.6	1.8	1.1	0.3	0.7	0.7	0.4	0.6	0.3	1.6
	85-6F	26.4	19.0	16.7	7.0	2.4	3.1	2.2	3.3	8.1	4.4	1.8	0.5	0.9	0.4	0.7	0.4	0.3	2.3
	85-6G	2.7	4.2	14.8	17.8	10.7	12.0	5.7	5.4	14.3	3.7	1.6	0.2	0.9	0.9	0.8	0.6	0.6	3.2
NEWELL 1	86-42	52.7	0.0	8.5	5.5	0.5	2.1	1.5	1.2	1.4	1.8	2.2	5.2	4.5	5.8	3.2	1.3	1.3	1.3
	86-43	73.9	0.0	0.0	1.3	0.7	1.3	1.2	0.8	1.2	0.9	1.3	3.1	3.0	3.5	2.4	1.7	1.4	2.3
	85-2A	57.3	5.4	4.5	4.6	3.1	3.4	2.8	1.8	2.2	0.6	0.3	11.2	0.4	0.4	0.3	0.3	0.3	1.2
	85-2B	63.0	6.3	6.8	5.9	3.2	2.9	1.5	1.2	2.0	0.4	0.2	5.4	0.2	0.1	0.2	0.1	0.2	0.5
	85-2C	40.9	9.0	12.6	11.9	4.5	4.4	2.8	1.7	2.3	0.6	0.3	7.8	0.3	0.1	0.2	0.0	0.3	0.5
	85-1B	6.5	10.8	15.3	23.5	7.6	6.8	4.0	4.2	5.3	2.1	0.9	11.0	0.5	0.4	0.3	0.2	0.2	0.5
	85-1A	6.3	5.1	8.2	21.8	10.3	10.9	7.7	4.7	5.9	2.4	1.2	13.5	0.4	0.5	0.3	0.2	0.1	0.6

SITE (DOWNSTREAM)	SAMPLE CS-	COARSER THAN -GRAVEL- -4.7	-4.3	-3.7	-2.7	-2.0	-SAND- -1.0	0.0	1.0	2.0	3.0	4.0	-SILT- 5.0	6.0	7.0	8.0	9.0	CLAY- 10.0	FINER THAN 10.0
NEWELL 2	85-7	66.9	2.2	4.0	5.2	2.6	2.7	2.1	3.5	5.5	1.8	0.7	0.8	0.3	0.3	0.2	0.2	0.7	0.2
	85-8	21.9	6.4	6.9	10.1	4.7	3.2	1.6	3.2	19.3	16.5	1.6	1.4	0.3	0.8	0.4	0.4	0.1	1.3
	85-9	49.8	7.7	6.5	10.0	4.7	5.2	3.3	1.3	1.5	3.5	2.2	1.3	0.9	0.6	0.5	0.2	0.3	0.9
ARROYO	86-32A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	26.4	49.8	10.7	2.8	1.3	1.0	1.7	1.0	1.0	4.3
	86-32B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	20.6	46.9	12.0	4.2	2.7	2.7	2.4	1.5	1.8	4.9
	86-32C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	15.4	54.4	10.5	3.7	1.6	2.3	1.9	1.2	1.6	7.4
	86-32D	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	8.9	46.7	19.0	3.6	2.8	3.4	4.1	1.0	2.1	8.2
	86-32E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	5.6	31.5	23.2	8.1	2.8	5.6	4.8	2.8	2.4	13.1
	86-32F	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	2.3	13.1	23.7	14.7	7.7	7.7	9.0	1.3	6.4	14.1
	86-32G	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	28.4	25.7	16.8	11.8	4.4	2.6	1.4	1.2	1.0	6.0
	86-32H	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.4	36.5	35.5	17.0	5.4	0.9	0.2	0.4	0.2	0.4	1.2
FOLLANSBEE SAND	85-19A	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	10.8	41.4	17.5	11.3	5.1	5.9	0.8	3.0	1.7	2.1
	85-19B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	11.3	40.8	16.0	8.7	3.6	5.5	1.4	3.2	1.8	7.8
	85-19C	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	12.3	53.8	20.3	6.8	1.1	1.5	0.4	0.8	0.8	2.3
	85-19D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	45.0	20.8	6.0	1.3	1.3	0.4	0.9	1.3	10.9
	85-19E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	56.5	19.7	6.8	1.1	0.5	1.1	0.5	0.5	1.1
	85-19F	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	42.8	19.3	6.7	1.8	1.8	0.6	0.6	0.6	12.8
	85-19G	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	50.6	20.3	7.2	1.8	0.7	0.7	0.4	0.7	1.5
	85-19H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	11.4	43.4	30.9	10.8	0.9	0.4	0.4	0.4	0.9	0.4
FOLLANSBEE SAND & GRAVEL	85-20A	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.9	2.2	5.6	16.5	27.5	17.9	10.3	7.6	3.4	4.8	2.8
	85-20B	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.0	3.0	6.9	28.8	18.0	12.4	6.7	6.7	3.4	12.4
	85-20C	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.5	1.9	7.2	31.1	19.4	9.7	4.8	3.9	4.8	16.5
	85-20D	0.0	0.0	0.0	0.0	0.7	0.5	0.3	0.6	4.0	14.2	21.4	25.4	12.8	4.0	1.6	2.4	1.6	10.4
	85-13B	0.0	4.3	4.6	10.9	6.8	7.9	5.8	5.4	8.0	7.2	7.6	7.2	4.7	4.8	3.0	1.5	1.1	9.3
	85-13A	26.7	1.3	5.5	5.8	2.8	4.5	5.2	4.9	8.3	6.4	5.3	5.6	3.7	3.5	2.2	1.6	1.0	5.8
	85-14	5.3	4.9	6.2	16.0	8.8	9.1	5.2	6.9	9.4	6.9	5.2	3.9	2.2	2.8	1.6	1.7	1.4	2.9

SITE (DOWNSTREAM)	SAMPLE CS-	COARSER THAN -4.7	-4.3	-3.7	-2.7	-2.0	-1.0	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	FINER THAN 10.0
		-GRAVEL-								-SAND-				-SILT-				CLAY-	
	85-15	11.7	0.0	2.8	9.1	5.7	5.4	4.2	9.3	25.7	7.7	3.8	3.8	2.4	1.5	1.5	1.4	0.1	4.1
	85-16A	15.2	2.7	7.7	8.9	7.6	6.6	4.6	9.3	16.8	5.6	2.3	1.3	2.6	1.1	2.1	0.5	1.1	4.0
	85-17	0.0	4.9	5.6	7.3	3.5	2.5	2.8	16.5	45.4	4.9	1.3	1.9	0.2	0.2	1.2	0.7	0.5	0.7
	85-16B	18.9	4.4	6.8	12.7	5.4	5.7	3.4	6.4	18.2	7.3	2.7	1.5	1.3	0.8	0.8	0.1	0.8	2.7
	85-18A	2.4	11.2	9.8	9.1	6.2	5.6	5.4	9.5	22.8	8.1	2.3	0.6	1.0	0.5	1.5	0.5	0.1	3.4
	85-18B	0.0	10.4	9.6	17.8	9.6	8.6	5.7	8.1	15.0	4.9	2.0	0.0	4.9	1.0	1.1	0.5	0.1	0.6
BEECH BOTTOM	85-35A	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.8	1.8	3.2	15.8	20.4	16.5	9.7	6.8	4.9	19.4
	85-35B	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8	1.9	3.3	12.1	18.2	16.3	9.6	6.7	7.7	23.0
	85-35C	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	1.6	2.5	4.4	10.9	21.3	14.9	9.3	5.0	4.3	24.9
	85-35D	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.8	2.3	5.0	23.8	21.7	17.3	5.8	4.4	2.9	15.9
	85-35E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	1.8	12.1	22.1	21.2	13.2	5.3	2.7	20.3
	85-35F	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.5	4.1	22.7	26.7	14.3	9.5	3.8	2.9	15.3
	85-35G	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.7	1.0	3.2	7.1	20.2	22.5	13.5	9.0	4.5	4.5	13.5
	86-33A	0.0	0.0	0.0	0.0	0.0	0.3	1.0	2.2	6.3	21.8	25.7	19.8	8.1	1.4	4.3	2.4	1.4	5.2
	86-33B	14.6	21.2	6.2	11.3	4.6	4.6	3.7	8.4	12.0	3.8	0.8	1.9	0.6	0.9	1.2	1.2	0.6	2.6
	86-33C	40.6	6.0	6.8	8.5	3.5	3.3	3.8	10.1	10.0	1.9	0.5	0.8	0.1	0.8	0.4	0.8	0.0	2.2
	86-33D	24.7	4.5	10.2	11.4	5.7	7.2	6.5	6.0	6.3	7.0	3.8	1.5	0.3	0.7	0.2	0.7	0.2	3.1
	86-33E	29.2	9.3	7.8	11.3	5.6	5.1	3.5	3.2	5.6	4.4	1.7	2.7	1.4	1.4	0.7	1.0	0.7	5.3
	86-33F	13.1	6.0	14.0	14.9	7.5	7.0	4.0	3.3	7.4	6.4	4.1	0.7	1.7	1.2	1.3	1.2	0.4	5.9
	86-33G	6.1	4.1	15.4	24.2	12.1	10.5	4.7	2.1	1.8	0.9	1.0	0.1	2.7	3.1	3.4	0.8	0.8	6.2
	86-33H	0.0	1.8	16.1	27.7	13.5	10.5	3.4	2.7	4.5	3.5	2.7	0.0	3.1	1.6	1.6	1.0	1.0	5.2
	86-33I	4.1	7.0	12.8	30.6	11.3	8.0	3.8	3.5	9.5	4.6	1.4	0.8	0.5	0.3	0.5	0.2	0.1	1.1
	86-33J	0.0	1.1	6.8	20.1	19.2	19.5	5.0	2.7	12.9	5.3	1.1	0.4	0.8	0.2	0.5	0.2	0.5	3.7
	86-33K	4.9	11.2	12.5	20.5	9.3	7.9	4.6	7.3	9.5	4.0	1.5	1.2	1.0	1.1	0.7	0.7	0.4	1.8
	86-33L	30.7	5.2	7.3	7.4	4.4	4.6	3.0	3.2	4.5	4.9	8.4	6.2	3.8	1.8	1.1	0.5	0.6	2.4
	86-33M	27.5	7.5	9.5	10.5	6.1	6.1	3.1	2.6	2.3	3.9	3.0	2.3	2.5	2.7	2.1	2.1	1.2	4.9

SITE (DOWNSTREAM)	SAMPLE CS-	COARSER THAN -GRAVEL- -4.7	-4.3	-3.7	-2.7	-2.0	-1.0	0.0	-SAND- 1.0	2.0	3.0	4.0	-SILT- 5.0	6.0	7.0	8.0	9.0	CLAY- 10.0	FINER THAN 10.0
POWER	85-21	0.0	0.9	5.5	25.6	23.5	28.2	6.8	1.3	0.6	0.5	0.5	0.4	0.9	0.2	0.7	0.4	0.4	3.7
	85-22	0.0	1.3	4.8	19.3	24.0	32.2	9.7	1.5	0.5	0.4	0.4	0.1	0.5	0.5	0.3	0.1	0.3	4.0
	85-23	10.3	8.3	10.4	21.9	11.3	11.4	8.9	10.8	3.3	0.4	0.3	0.5	0.5	0.5	0.4	0.2	0.2	0.5
DILLES BOTTOM	85-26	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.5	2.8	3.8	12.7	32.2	17.3	7.3	2.7	1.8	1.8	15.5
	85-25	0.0	3.0	13.1	21.0	9.9	11.0	9.7	10.2	14.1	1.9	0.9	0.7	1.1	1.0	0.7	0.5	0.4	1.1
	85-24	0.0	4.4	7.3	18.9	10.7	11.6	8.3	13.1	12.5	2.6	1.3	3.7	0.9	0.8	0.8	0.7	0.5	2.1
NEW MARTINSVILLE	85-27	0.0	1.5	1.0	3.5	5.5	22.7	19.0	23.5	14.1	2.8	0.7	3.4	0.5	0.4	0.2	0.1	0.2	0.9
	85-28	0.0	0.0	3.7	7.0	8.5	14.9	15.3	22.6	18.2	4.5	1.1	1.0	0.6	0.7	0.5	0.3	0.3	0.8
	85-29	0.0	1.9	4.0	7.8	4.7	6.2	15.5	30.2	23.5	3.9	0.4	0.7	0.1	0.0	0.2	0.0	0.2	0.6
	85-30	0.0	1.5	1.3	5.5	6.3	13.6	18.3	19.6	27.7	4.3	0.6	0.0	0.4	0.3	0.3	0.1	0.3	0.0
	85-31	0.0	1.6	2.5	10.6	6.5	6.1	3.8	10.4	50.3	5.8	0.6	0.4	0.2	0.2	0.2	0.1	0.1	0.7

APPENDIX VIII

GRAIN SIZE, STATISTICAL, AND MISCELLANEOUS DATA

KEY TO HEADINGS:

MUNSELL COLOR MOIST = MOISTENED IN SITU FIELD COLOR
MUNSELL COLOR WET = SILT AND CLAY SUSPENDED IN WATER

SITE (DOWNSTREAM)	SAMPLE CS-	LOWER DEPTH (M)	MUNSELL COLOR MOIST	MUNSELL COLOR WET	% GRAVEL	% SAND	% SILT	% CLAY	MEAN (PHI)	SORTING (PHI)	SKEWNESS	KURTOSIS
EAST END	85-10	0.08	10 YR 4/2	10 YR 3/2	23.7	32.3	42.0	2.0	2.5	4.1	-0.4	2.2
	85-11	1.60	10 YR 3/4	10 YR 4/4	61.2	29.5	5.1	4.2	-0.4	4.0	1.3	4.4
	85-12A	2.36	10 YR 3/3	10 YR 3/3	90.5	7.5	1.6	0.3	-3.5	2.5	2.9	12.0
	85-12B	3.12	10 YR 3/3	10 YR 3/3	92.3	6.4	1.0	0.3	-3.7	2.2	3.4	15.6
	85-12C	3.89	10 YR 3/3	10 YR 3/3	91.3	7.0	1.3	0.4	-3.5	2.4	3.2	14.5
	85-12D	4.76	10 YR 3/3	10 YR 3/3	92.7	4.6	2.4	0.3	-3.6	2.3	3.5	16.3
CHESTER	85-3	1.14	10 YR 4/3	10 YR 4/4	77.0	21.0	1.5	0.6	-1.9	2.8	1.4	5.6
	85-4	1.80	10 YR 4/3	10 YR 4/4	24.1	73.6	1.5	0.9	1.1	2.1	0.5	7.5
	85-5	2.90	10 YR 3/3	2.5 Y 5/4	72.5	22.1	4.0	1.5	-1.3	3.5	1.3	4.7
	85-6A	4.42	10 YR 4/3	2.5 Y 5/4	62.2	30.0	5.4	2.4	-0.1	3.6	1.1	3.8
	85-6C	5.46	10 YR 4/4	10 YR 4/4	0.8	87.5	10.2	1.6	3.5	1.7	1.4	8.5
	85-6D	5.52	10 YR 4/3	10 YR 4/2	62.8	29.8	4.9	2.5	-0.3	3.7	1.0	3.7
	85-6E	5.73	10 YR 3/3	10 YR 5/4	86.0	9.3	2.8	1.9	-1.6	3.1	2.3	9.1
	85-6F	5.79	10 YR 3/4	10 YR 5/4	74.7	19.8	2.9	2.6	-1.7	3.8	1.7	5.5
	85-6G	6.20	10 YR 3/4	10 YR 5/4	62.2	30.7	3.3	3.8	-0.0	3.6	1.5	5.2
NEWELL 1	86-42	0.18	10 YR 3/2	10 YR 3/2	69.3	8.2	21.9	2.6	-0.9	5.0	1.0	2.4
	86-43	0.51	10 YR 4/4	10 YR 5/4	77.3	5.3	13.6	3.9	-1.8	4.9	1.5	3.7
	85-2A	2.12	10 YR 4/4	10 YR 4/4	78.2	7.6	12.7	1.5	-2.1	3.9	1.6	4.4
	85-2B	3.51	10 YR 4/4	10 YR 4/4	88.1	5.3	6.0	0.7	-3.0	3.0	2.4	8.5
	85-2C	5.08	10 YR 3/3	10 YR 3/3	83.1	7.6	8.5	0.8	-2.3	3.2	1.8	5.7
	85-1B	6.43	10 YR 3/3	10 YR 3/3	70.4	16.6	12.4	0.7	-0.8	3.4	1.1	3.5
	85-1A	7.77	10 YR 3/3	10 YR 3/2	62.6	21.8	14.9	0.7	-0.1	3.3	0.9	3.0

SITE (DOWNSTREAM)	SAMPLE CS-	LOWER DEPTH (M)	MUNSELL COLOR MOIST	MUNSELL COLOR WET	% GRAVEL	% SAND	% SILT	% CLAY	MEAN (PHI)	SORTING (PHI)	SKEWNESS	KURTOSIS
NEWELL 2	85-7	1.51	10 YR 4/3	10 YR 4/3	83.6	13.6	1.9	0.9	-2.9	3.0	2.2	7.6
	85-8	2.17	10 YR 5/3	10 YR 3/3	53.2	42.2	3.2	1.3	-0.2	3.7	0.5	2.6
	85-9	2.79	10 YR 3/3	10 YR 3/2	83.7	11.7	3.4	1.1	-2.4	3.3	2.0	6.9
ARROYO	86-32A	0.08	7.5 YR 3/4	2.5 Y 4/4	0.0	87.0	7.7	5.3	4.0	2.1	2.5	8.4
	86-32B	0.91	7.5 YR 5/6	7.5 YR 5/8	0.0	79.7	13.6	6.7	4.4	2.4	1.9	5.6
	86-32C	1.03	10 YR 4/6	10 YR 5/8	0.0	80.4	10.7	8.9	4.5	2.5	1.9	5.4
	86-32D	1.49	7.5 YR 4/4	10 YR 5/6	0.0	74.7	15.0	10.3	5.0	2.6	1.5	4.1
	86-32E	1.54	7.5 YR 4/6	10 YR 5/6	0.0	60.4	24.1	15.5	5.8	2.9	1.0	2.5
	86-32F	1.78	10 YR 5/4	10 YR 5/6	0.1	39.2	40.3	20.5	6.6	2.8	0.6	2.0
	86-32G	2.03	10 YR 5/4	10 YR 5/4	0.0	71.6	21.4	7.0	4.5	2.4	1.6	5.2
	86-32H	3.66	10 YR 5/4	2.5 Y 4/4	0.0	91.4	7.0	1.6	3.6	1.4	2.8	15.1
FOLLANSBEE SAND	85-19A	0.23	10 YR 3/3	10 YR 3/2	0.21	70.0	26.0	3.8	4.7	2.1	1.5	5.1
	85-19B	0.90	7.5 YR 4/4	10 YR 6/6	0.0	68.1	22.3	9.6	5.1	2.6	1.4	3.8
	85-19C	1.11	10 YR 4/4	10 YR 5/6	0.0	86.4	10.6	3.0	4.1	1.7	2.8	12.0
	85-19D	1.30	7.5 YR 4/4	10 YR 5/6	0.0	77.9	9.9	12.2	4.8	2.7	1.8	4.7
	85-19E	1.42	10 YR 5/4	10 YR 5/6	0.0	88.3	10.1	1.6	4.0	1.4	3.0	14.4
	85-19F	1.52	7.5 YR 4/4	10 YR 6/6	0.0	75.0	11.6	13.4	5.0	2.8	1.6	4.1
	85-19G	2.18	10 YR 5/4	10 YR 5/6	0.0	86.9	10.9	2.2	4.0	1.5	2.8	13.1
	85-19H	2.57	10 YR 5/4	10 YR 3/6	0.0	85.8	12.9	1.3	4.1	1.3	2.5	13.5
FOLLANSBEE SAND & GRAVEL	85-20A	0.06	10 YR 5/4	10 YR 4/2	0.2	25.6	66.7	7.6	6.3	2.1	0.5	3.4
	85-20B	0.17	10 YR 5/6	2.5 Y 6/6	0.0	11.6	72.6	15.7	7.1	2.3	0.5	2.6
	85-20C	0.61	10 YR 4/6	2.5 Y 6/6	0.1	9.7	68.8	21.3	7.3	2.4	0.6	2.3
	85-20D	0.91	10 YR 4/6	10 YR 5/6	1.2	40.5	46.2	12.0	5.8	2.6	0.8	3.6
	85-13B	1.22	10 YR 4/4	10 YR 5/4	34.5	34.0	21.2	10.4	2.8	4.6	0.4	2.1
	85-13A	2.06	10 YR 4/4	10 YR 5/4	46.5	30.1	16.6	6.8	1.1	5.0	0.5	2.1
	85-14	2.74	10 YR 4/4	10 YR 4/4	50.2	33.5	12.1	4.3	1.0	4.1	0.8	2.9
	85-15	3.33	10 YR 4/4	10 YR 4/4	34.6	50.7	10.4	4.2	1.5	3.9	0.5	3.2
	85-16A	4.09	10 YR 5/4	10 YR 5/4	48.7	38.7	7.6	5.1	0.6	4.2	0.8	3.2
	85-17	4.60	10 YR 5/4	10 YR 4/3	23.7	70.9	4.2	1.2	1.5	2.7	0.2	4.6

SITE (DOWNSTREAM)	SAMPLE CS-	LOWER DEPTH (M)	MUNSELL COLOR MOIST	MUNSELL COLOR WET	% GRAVEL	% SAND	% SILT	% CLAY	MEAN (PHI)	SORTING (PHI)	SKEWNESS	KURTOSIS
	85-16B	4.90	10 YR 5/4	10 YR 5/4	54.0	38.0	4.4	3.6	0.0	3.9	0.9	3.5
	85-18A	5.82	10 YR 5/4	10 YR 5/4	44.3	48.0	4.2	3.4	0.7	3.7	0.8	3.8
	85-18B	6.73	10 YR 5/4	10 YR 5/4	56.0	35.8	7.5	0.7	0.1	3.3	0.9	3.4
BEECH	85-35A	0.18	10 YR 5/6	2.5 Y 6/6	0.1	6.5	69.2	24.3	7.9	2.4	0.1	2.4
BOTTOM	85-35B	0.34	10 YR 5/4	2.5 Y 6/6	0.0	6.4	62.9	30.7	8.2	2.4	-0.1	2.1
	85-35C	1.12	10 YR 5/4	2.5 Y 4/6	0.0	9.4	61.4	29.2	8.0	2.6	-0.1	2.2
	85-35D	2.29	10 YR 5/4	10 YR 5/6	0.0	8.4	72.8	18.8	7.4	2.3	0.5	2.5
	85-35E	2.52	10 YR 4/4	2.5 Y 6/6	0.0	3.1	73.9	23.0	8.1	2.2	0.3	2.3
	85-35F	3.26	10 YR 4/4	2.5 Y 6/6	0.0	4.9	77.0	18.1	7.5	2.2	0.7	2.5
	85-35G	3.37	10 YR 4/4	10 YR 4/4	0.1	12.3	69.6	18.0	7.3	2.4	0.3	2.7
	86-33A	3.45	10 YR 6/2	7.5 YR 4/6	0.3	57.1	36.0	6.7	5.2	2.3	1.1	4.2
	86-33B	3.68	10 YR 4/4	10 YR 4/4	62.4	28.7	5.7	3.2	-0.7	4.0	1.2	4.0
	86-33C	4.18	10 YR 4/3	10 YR 4/4	68.6	26.3	2.8	2.3	-1.6	3.7	1.5	5.2
	86-33D	4.59	10 YR 4/4	10 YR 4/4	63.7	29.6	3.4	3.3	-0.7	3.9	1.2	4.3
	86-33E	4.92	10 YR 3/3	10 YR 4/4	68.4	18.4	7.3	6.0	-0.7	4.6	1.3	3.8
	86-33F	5.94	10 YR 4/4	10 YR 4/3	62.5	25.2	6.1	6.3	0.1	4.5	1.2	3.5
	86-33G	6.11	10 YR 4/4	10 YR 4/4	72.4	10.6	10.1	7.0	0.0	4.5	1.4	3.8
	86-33H	6.68	10 YR 4/4	10 YR 4/3	69.6	16.8	7.4	6.3	0.2	4.2	1.5	4.2
	86-33I	6.84	10 YR 3/4	10 YR 3/3	73.7	22.7	2.3	1.3	-1.0	2.9	1.6	6.3
	86-33J	7.04	10 YR 4/4	10 YR 3/3	66.6	27.1	2.2	4.2	0.1	3.3	1.9	6.7
	86-33K	8.32	10 YR 4/4	10 YR 4/3	66.3	26.9	4.6	2.2	-0.6	3.4	1.4	5.0
	86-33L	10.23	10 YR 4/4	10 YR 4/4	59.6	24.0	13.4	3.0	-0.1	4.5	0.7	2.4
	86-33M	10.65	10 YR 4/4	10 YR 5/4	67.2	15.0	11.8	6.1	-0.2	4.9	1.1	2.9
POWER	85-21	1.12	10 YR 3/3	10 YR 4/4	83.8	9.6	2.6	4.1	-0.5	3.1	2.8	11.0
	85-22	2.48	10 YR 3/3	10 YR 3/3	81.6	12.6	1.5	4.3	-0.5	3.0	3.0	12.0
	85-23	3.21	10 YR 3/2	10 YR 3/2	73.6	23.6	2.1	0.7	-1.3	2.6	1.6	7.4
DILLES	85-26	-	-	10 YR 5/6	0.2	21.2	61.3	17.3	6.6	2.6	0.7	2.9
BOTTOM	85-25	-	-	10 YR 2/1	57.9	36.7	3.9	1.5	-0.1	3.0	1.4	5.6
	85-24	-	-	10 YR 3/2	52.9	37.7	6.8	2.6	0.4	3.3	1.3	4.9

SITE (DOWNSTREAM)	SAMPLE CS-	LOWER DEPTH (M)	MUNSELL COLOR MOIST	MUNSELL COLOR WET	% GRAVEL	% SAND	% SILT	% CLAY	MEAN (PHI)	SORTING (PHI)	SKEWNESS	KURTOSIS
NEW MARTINSVILLE	85-27	1.60	10 YR 4/3	10 YR 3/2	34.2	60.1	4.6	1.2	1.0	2.2	1.4	8.1
	85-28	2.57	10 YR 4/3	10 YR 2/1	34.1	61.8	3.0	1.2	0.9	2.4	1.2	6.9
	85-29	3.02	10 YR 4/3	10 YR 2/2	24.7	73.5	1.1	0.8	0.9	2.1	0.4	6.7
	85-30	3.43	10 YR 4/3	10 YR 2/1	18.2	70.5	1.1	0.3	1.0	1.9	0.3	5.6
	85-31	4.29	10 YR 4/3	10 YR 3/4	27.3	70.9	1.1	0.7	1.3	2.3	-0.0	5.0

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Carbonate Sedimentology

MASTER 7179.

SITE: Wash Works
PROJECT #: 7179
CATEGORY: 0600
DATE RCVD:
BY WHOM:

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APPENDIX B

GEOLOGIC LOGS

APPENDIX B
GEOLOGIC LOGS

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Attachment B-1. Local Landfill Monitor Well Geologic Logs and Technical Specifications
Attachment B-2. Historic Borehole, Test Well and Production Well Geologic Logs

Borehole geologic logs of the 12 boreholes completed at the River Bank Landfill, the three boreholes drilled at the Anaerobic Digestion Ponds and the seven boreholes drilled at the Burning Grounds are presented on Figures B-1 through B-22. Well completion logs for the Local Landfill monitor wells LLMW 1 through LLMW 8 (completed in 1989), are also included as Attachment B-1. Geologic logs of test borings from previous investigations are presented in Attachment B-2. The field geologic logs for the temporary well completions are included in Appendix E.

DRILLING, TEMPORARY MONITOR WELL INSTALLATION AND SOIL SAMPLING

Du Pont contracted H.C. Nutting of Charleston, West Virginia to drill, install and abandon the 22 temporary monitor wells. The boreholes were drilled with a CME model 55 mechanically driven rotary unit with torque converter, using 4-inch inner diameter, 5-foot long hollow stem auger flights. Composite samples were collected at 5 foot intervals with 24-inch long, 2-inch diameter split-spoon samplers at the Anaerobic Digestion Ponds and Burning Grounds, and 5 to 10 foot intervals at the Riverbank Landfill, and wherever significant lithologic changes occurred.

The auger flights were steam cleaned between each borehole to prevent potential cross-contamination. All water used to clean auger flights was collected in a plastic lined sump and pumped into drums and/or a tanker for proper disposal. Split spoons were cleaned between samples with Alconox detergent wash and tap water rinse. Split spoon samplers that were used for collection of samples for laboratory analysis were cleaned with an additional 10% nitric acid wash, distilled water rinse, 50% methanol wash and distilled water rinse. All washwater, waste nitric acid wash and rinse water and waste methanol wash and rinse water were collected in separate containers and properly characterized, treated and/or disposed.

The temporary monitor wells were constructed of 2-inch inner diameter schedule 40 flush-joint threaded PVC casing, with 10 feet of 0.01-inch slot PVC screen and a threaded PVC end-cap at the base. A steel plate was fitted around the top of each well casing and installed in the annular space of the borehole at a depth of 5 to 7 inches below grade. The upper part of the wells were sealed with bentonite pellets along the annulus of the borehole, from the steel plate to grade level. The bentonite was mounded above grade around the PVC riser to a height of approximately eight inches. The bentonite and steel plates were used to seal the top of the borings to prevent any surface water runoff down along the annular space. The 2 to 3 foot PVC risers were capped with locking well caps.

Drilling and monitor well installation and abandonment were supervised by Libby Alberti, a hydrogeologist with Du Pont Environmental Remediation Services (DERS). The borings were geologically logged and monitored for organic vapors using an HNU

photoionizing detector (PID) or organic vapor analyzer (OVA). The recorded PID or OVA values from drill cuttings and split spoon samples are indicated on both the written and pictorial logs. Geologic logs were prepared based on split spoon samples and drill cuttings. Subsurface materials were classified based on the Unified Soil Classification System (USCS).

The temporary monitor wells were abandoned in March 1992 per the original project schedule. Well abandonment was completed by H. C. Nutting under the supervision of Libby Alberti. Well abandonment was accomplished by first removing the bottom well casing cap and then tremieing cement, bentonite and grout into the the surrounding formation. Well casings were either removed during the grouting process or left in place and perforated to allow grout penetration into the surrounding formation.

Surficial (shallow) soil samples taken at the Local Landfill, Polyacetal Waste Incinerator and at the plant background locations were obtained with a stainless steel hand auger or a steel shovel.

GEOLOGIC LOGS

Riverbank Landfill North

Boring logs for the temporary monitor wells installed to the north of the Riverbank Landfill along the banks of the Ohio River are shown in Figures B-1, B-4, B-6, B-7, B-10 and B-11. The subsurface materials adjacent to the riverbank in the upper 29 to 36 feet consist of clay and silt. This upper clay and silt zone is underlain by silty, clayey or gravelly sand. The depth to ground water during drilling was approximately 18 to 29 feet at RBLMW 1, 4, 7, 10 and 11, and 9 feet at RBLMW 6. Static water levels measured on 12/12/91 were about 10 to 29 feet deep.

The six northern Riverbank wells were completed about 1 to 3 feet below the base of the clay layer, with completion depths of about 30 to 39 feet. The wells had 1 to 3 feet of well screen in sand and 7 to 9 feet of well screen in the overlying clay or silt. This interval was chosen to intercept the top of the highly permeable sand unit as well as the ground water in the overlying saturated clays and silts.

An HNU photoionizing detector was used to monitor any organic vapors encountered during the drilling of monitor wells RBLMW 10 and RBLMW 11. Due to a malfunction in the HNU as a result of water damage, an OVA was subsequently used to monitor any organic vapors encountered while drilling wells RBLMW 7, 6, 4 and 1. Split spoon samples, drill cuttings and the top of the borehole were monitored for organic vapors. Results are shown on the geologic logs. In general, the samples from the surface to about 20 to 30 feet deep had HNU and OVA readings equivalent to background. Deeper samples, taken from 30 to 40 feet, had HNU and OVA readings approximately 1 ppm above background. The highest

OVA reading in the northern Riverbank Landfill wells was 6.2 ppm at RBLMW 4, at a depth of 20 to 22 feet. However, no volatile or semi-volatile organics were detected in the ground water at RBLMW 4, indicating that this OVA measurement may not have been representative of actual conditions. The two farthest upgradient wells, RBLMW 10 and 11, had background readings over their entire depths. There did not appear to be any systematic change in PID or OVA readings at the water table at any of the northern Riverbank Landfill wells.

Riverbank Landfill South

Boring logs for the temporary monitor wells installed to the south of the Riverbank Landfill and above the Ohio River bank are shown in Figures B-2, B-3, B-5, B-8, B-9 and B-12. The subsurface materials consist of approximately 10 to 15 feet of clayey silt and/or silty sand underlain by sandy gravel grading into sand. Some borings had 1 to 5 feet of fill material at the surface which consisted of rock and concrete debris and/or what appeared to be ash.

Based on the drill cuttings, the gravel unit beneath the silt and sand consisted of 2 to 4-inch diameter, well rounded, sub-spherical cobbles in a brown sand matrix. Because of the large cobbles encountered (> 2-inch diameter), split spoon samples taken in this zone were not representative. The large cobbles were not introduced into the sampler as readily as sand and smaller gravel.

Throughout the sand and gravel unit, the amount and size of gravel generally decreased with depth, grading from sandy gravel through gravelly sand to well-sorted sand. The gravel generally disappeared or appeared only in trace amounts at a depth of about 40 to 50 feet. Occasional 1/8 to 2.5-inch wide bands of what appeared to be black peat or orange rust staining were encountered.

The depth to ground water was about 60 to 61 feet in the eastern portion at RBLMW 9 and 12, and at about 65 to 66 feet in the western portion at RBLMW 2 and 3. Ground water was encountered at slightly deeper levels (67 to 69 feet) at RBLMW 8 and 5, in the vicinity of the Ranney process water production well. Flowing sand was encountered below the water table in all borings south of the Riverbank Landfill. To prevent the sand from flowing up the augers, domestic water had to be used while drilling and pulling the rods below the water table. The water was taken from the site drinking water supply lines.

The temporary wells were screened across the ground water/vadose zone interface, with about 9 feet of well screen below the water table and about one foot of well screen in the unsaturated zone. Completion depths ranged from 69 to 79 feet.

With the exception of RBLMW 2, PID readings on split spoon samples, drill cuttings and down boreholes were all at background, or less than 1 ppm above background. PID readings from split spoon samples at RBLMW 2 varied between background level at the surface to 62 ppm at the ground water interface at a depth of 65 feet. The average PID reading was about 5 ppm. Drill cuttings and down-hole PID readings from RBLMW 2 were similar, but PID levels dropped off dramatically away from the borehole to levels slightly above background in the breathing zone.

The hydraulic gradient across the Riverbank Landfill, from wells near the southern boundary to the wells on the northern side, is approximately 0.03 ft./ft. to the south (away from the river). This value was calculated based on static ground water levels measured on 12/12/91. The topographic gradient across the Riverbank Landfill is approximately 0.17 ft./ft. in the opposite direction, towards the river.

Anaerobic Digestion Ponds

Boring logs for the three temporary monitor wells at the Anaerobic Digestion Ponds are shown in Figures B-13, B-14 and B-15. The subsurface materials in the vicinity of the old Anaerobic Digestion Ponds consist primarily of 20 to 25 feet of silt and clay overlying 15 feet of sand and/or silty sand. The depth to ground water was about 29 to 31 feet. The wells were screened across the ground water/vadose zone interface, with completion depths of 35 to 37 feet. The wells had about 5 to 7 feet of well screen below the water table and about 3 to 5 feet of well screen above it.

PID levels from split spoon samples, drill cuttings and the top of the boreholes were consistently at background or < 1 ppm above background. In ADPMW 2, white-gray fragments which appeared to be teflon* were encountered at a depth of 10 to 12 feet, and similar material was encountered from 5 to 12 feet in ADPMW 3. In both instances there was an odor similiar to the odor of the waste material which was disposed of in the Anaerobic Digestion Ponds.

Polyacetal Waste Incinerator

The shallow (0 to 2 feet) subsurface materials in the vicinity of the Polyacetal Waste Incinerator consist of brown gravelly clayey silt and silty sand. The PID readings for the two soil samples and boreholes were background.

Burning Grounds

Boring logs for the seven temporary monitor wells completed at the Burning Grounds are shown in Figures B-16 through B-22. The subsurface materials in the vicinity of the Burning Grounds are similar to those found south of the Riverbank Landfill. The upper 10 to 20 feet consist primarily of silt and/or silty sand. This unit is underlain by gravelly sand which grades into well

sorted sand at a depth of approximately 40 to 45 feet. Occasional 1/4 inch to 1 foot thick zones of what appeared to be black peat or ash were present within the gravel and sand units.

Ground water was encountered at a depth of 59 to 62 feet. Flowing sand was encountered below the water table. Domestic water was used to drill to about 9 feet below the water table, with completion depths of 68 to 70 feet below ground surface. The wells were screened across the ground water/vadose zone interface, with approximately 9 feet of well screen below the water table, and approximately 1 foot of well screen above it.

PID levels from split spoon samples, drill cuttings and the top of the boreholes were < 1 ppm above background for all borings except BGMW 5. The maximum PID reading from split spoon samples from BGMW 5 was 20 ppm at the 0 to 2 foot depth. The readings generally decreased with depth, reaching background levels at a depth of 60 feet. However, no volatile or semi-volatile organics were detected in the ground water at BGMW 5. Only low levels of methylene chloride were detected in the shallow soil samples.

Local Landfill

Geologic logs and technical specifications for the eight Local Landfill monitor wells are included as Attachment B-1. Cross sections G-G′ and H-H′ through the Local Landfill are presented on Figures B-23 and B-24.

The Local Landfill monitor wells were constructed in 1989 by the firm of Tetra-Tech Richardson. The wells were screened over 15 to 20 foot intervals in either the shallow weathered zone or sandstone zone, both of the Dunkard Group. Additional geologic information is included in Appendix D of the VI Work Plan. No additional drilling was conducted for the VI.

Monitor wells LLMW 1, 2, 3, 5 and 7 are located in topographic lows and are only 21 to 39 feet deep. Boring logs indicate that the subsurface materials consist of an overburden of clay with some sand layers, a zone of highly weathered shale, and competent bedrock of the Dunkard Group. The shallow clay layer which starts at ground surface ranges in thickness from 3 feet at LLMW 1 to 25 feet at LLMW 5 and also contains some minor sandy and silty zones. Underlying the clay layer is weathered shale which ranges in thickness from 10 feet thick in LLMW 5 to 35 feet thick in LLMW 1. Competent bedrock is present at depths ranging from 21 feet at LLMW 3 to 40 feet at LLMW 1. The bedrock at these sites consists of red and gray shale with minor sandstone and siltstone beds.

The depth to ground water in the shallow weathered zone ranges from 4 to 20 feet below ground surface. The shallow monitor wells are screened in the clay and weathered shale zones. Well yields are very low, from <0.05 gpm to 1 gpm.

Monitor wells LLMW 4, 6 and 8 are located at higher elevations. They are 90 to 155 feet deep and are completed in a locally laterally continuous sandstone unit. The subsurface materials encountered at these sites consist of about 0 to 32 feet of clay, sand and weathered shale overlying competent bedrock of the Dunkard Group. The bedrock consists primarily of thick beds of red and gray shale with minor sandstone and siltstone beds. The sandstone in which the wells are completed occurs at an elevation of approximately 725 to 735 feet msl and ranges in thickness from 15 feet at LLMW 6 to 20 feet at LLMW 8. The top of the sandstone unit is about 60 feet below ground surface at LLMW 6, and about 110 to 120 feet below ground surface at LLMW 4 and 8.

The depth to ground water in these deeper wells completed in the sandstone unit ranges from about 65.8 feet below ground surface in LLMW 8 to 130 feet below ground surface in LLMW 4. These wells only yield about 0.5 to 1.5 gpm. This is consistent with the low yields typically observed from the Dunkard Group.

Historic Borehole Geologic Logs

Geologic logs for historic test borings drilled for geotechnical purposes, production wells and test wells are included in Attachment B-2. The subsurface materials depicted in the VI geologic logs are in close agreement with the historic geologic logs. The historic borings from the plant area show a clayey or sandy silt unit overlying gravel and sand. The borings from the riverbank indicate over twenty feet of silty, sandy or gravelly clay overlying sand and/or gravel. The historic borings that were advanced to bedrock (BD-41, BD-44 and BD-46) show that the floor of the Ohio River Valley basin in the vicinity of the plant consists of gray, black and/or brown weathered shale of the Dunkard Group. The bedrock/ overburden contact is at an elevation of about 530 to 540 feet msl.

Upgradient Soil Samples

Upgradient soil samples UGS 1 and UGS 4 were taken from the west end of the plant and were composited from a depth of 0 to 2 feet. The soils consisted of brown clayey silt. Upgradient soil samples UGS 2 and UGS 3 were taken from the east end of the plant. UGS 2 was composited from a depth of 2 to 4 feet. This depth was chosen because the subsurface material from the surface to 2 feet deep was dark brown topsoil fill which did not appear to be representative of soil at the plant. Native material (brown clayey silt) was encountered below 2 feet. UGS 3 was composited from a depth of 0 to 2 feet. The PID readings for UGS 1 and UGS 2 were background. No PID readings were taken at UGS 3 and 4. Background soil sample UGS 564 was taken at a private residence about 2.5 miles east of the plant. The location was a hill and the soil consisted of brown silty topsoil. Offsite soil samples were also taken at DERC Park, located approximately 4 miles west of the Washington Works plant and from a private residence in the

town of St. Marys, located approximately 30 miles east-northeast of the Washington Works plant along the Ohio River.

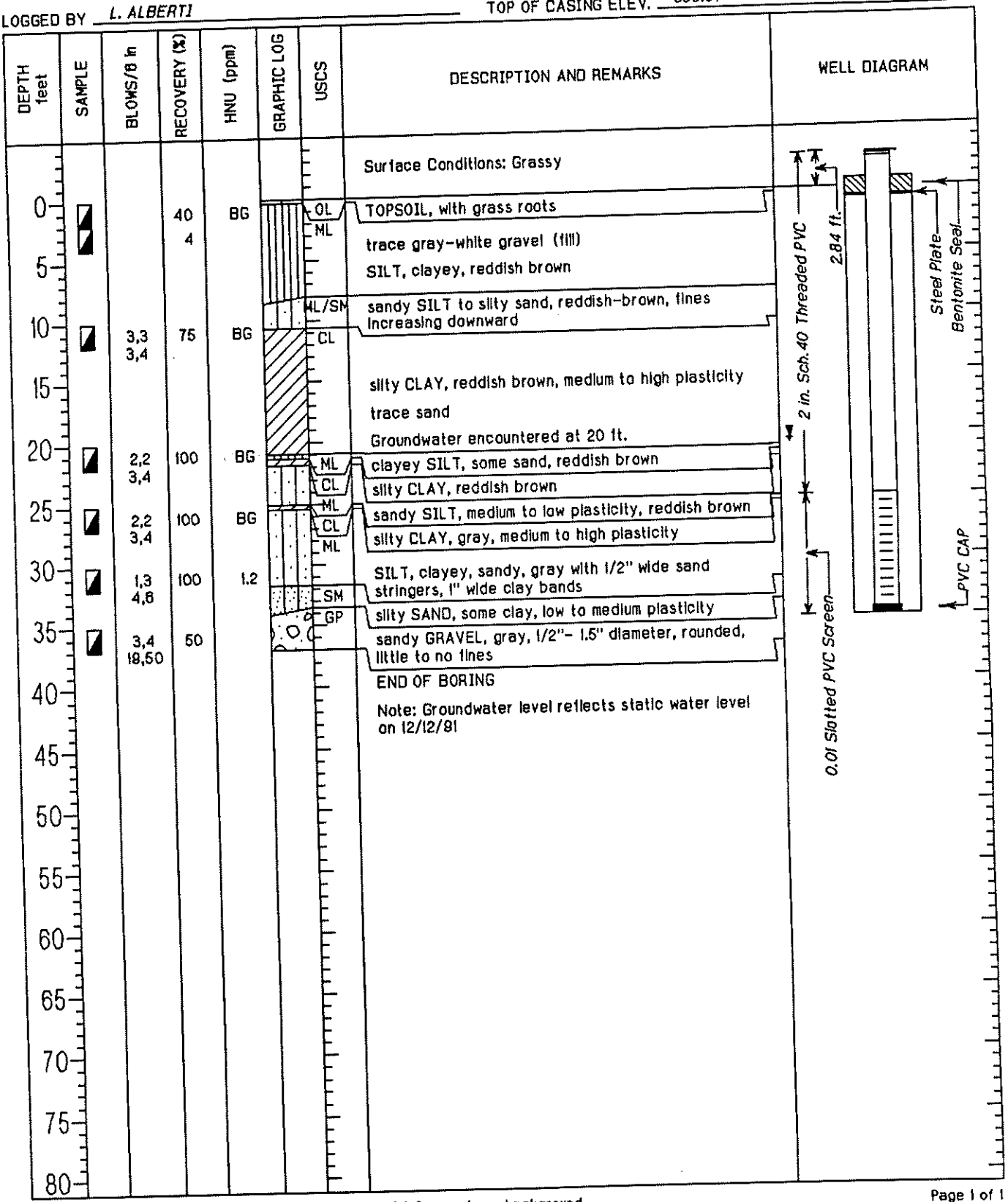
GEOLOGIC LOGS FROM V.I. TEMPORARY WELLS

(FIGURES B-1 THROUGH B-22)

DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-1
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/14/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 595.67



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-2 | CLIENT DUPONT POLYMERS

PROJECT WASHINGTON WORKS VI | DRILLING COMPANY H.C. NUTTING, INC.

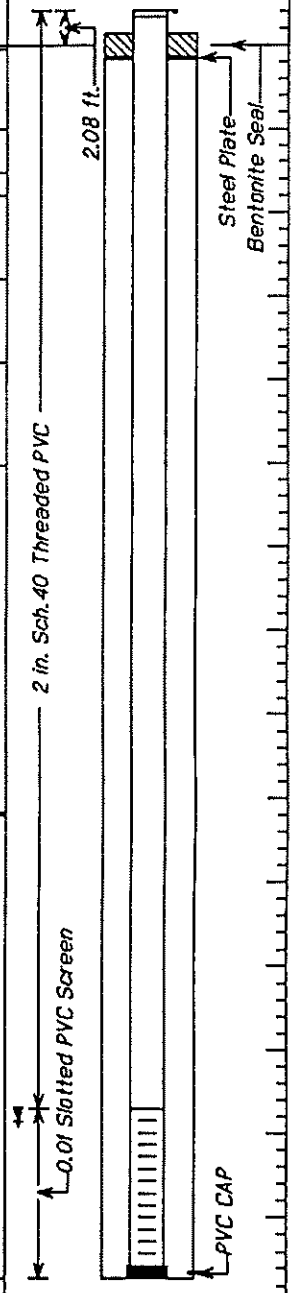
LOCATION PARKERSBURG, WV | DRILLING METHOD 4" I.D. HOLLOW STEMMED AUGER

DATE DRILLED 11/20/91 - 11/21/91 | SAMPLING METHOD SPLIT SPOON

LOGGED BY L. ALBERTI | TOP OF CASING ELEV. 632.42

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
0							Surface Conditions: New asphalt
						FILL	ASPHALT
			45	BG			GRAVEL/rock and debris (fill)
5		13,14	50	5.0		ASH	ASH, black, gravelly, grading into silt
		10,10	100	8.0		ML	SILT, gray, some ash content, grading into reddish
10		5,5	100	14		SM	brown clayey silt
		8,10					silty SAND, brown, fine grained
15		8,7	87	5.0		SW	gravelly SAND, reddish brown, medium grained,
		8,9					slightly moist
20		3,4	50	3.0		GP	rounded gravel, 1/4" to 2" diameter
		4,4					sandy GRAVEL, brown, 1/8" to 2" diameter, rounded
25		3,3	58	1.0		SW	
		3,4					SAND, brown, well sorted, little to no fines
30		7,9	100	0.1			gravelly SAND, medium to coarse grained
		8,6					
35		10,14	58	5.0			
		18,12	87	8.0			
40			75	8.0			gravelly SAND, as above
45			83	2.0		PT	PEAT, black, sooty, 2.5" wide band
						SW	
50		30,29	75	0.8			gravelly SAND, medium to coarse grained
		28,22					
55		15,23	58	1.4			orange rust staining
		28,40					
60		14,21	83	1.0			
		22,28					
65		28,33	83	82			Groundwater encountered at 65 ft.
		32,30					Flowing sand encountered below water table
70							Domestic water used to drill to 73.8 ft.
75							END OF BORING
							Note: Groundwater level reflects static water level on 12/12/91
80							

WELL DIAGRAM



JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

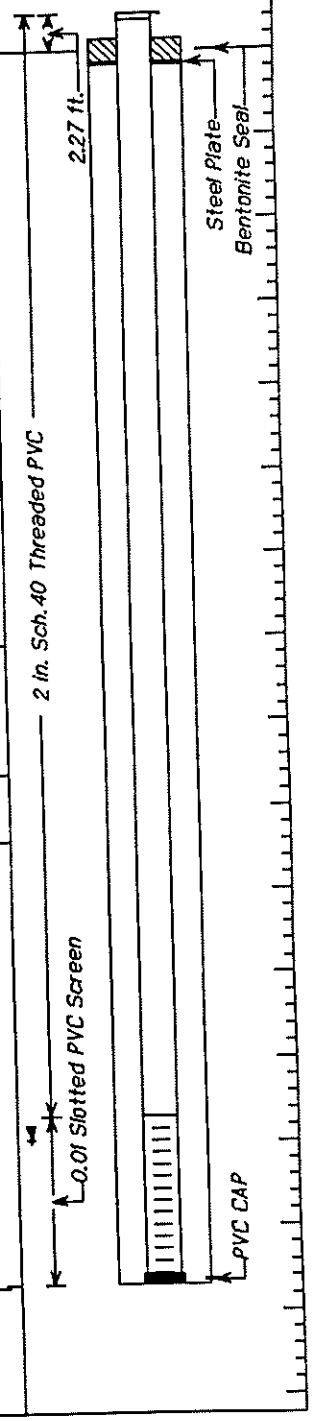
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-3
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/19/91 - 11/20/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 633.12

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
							Surface Conditions: Asphalt
0		13,8	92	BG		RL/SM	ASPHALT and rock/gravel fill
5		9,7	79	BG			layers of 0.3" wide silty SAND and sandy SILT, reddish brown
10		4,4 5,5	48	BG		SM	silty SAND, brown, fine to medium grained
15		10,10 11,8	48	BG		SW	gravelly SAND, light brown, medium to coarse grained, 1/2" to 2" diameter gravel
						GP	sandy GRAVEL, auger encountered cobbles
20		5,5 7,9	28	BG		GW	GRAVEL, brown, 1/8" to 2" diameter, rounded, some medium to coarse brown sand
25		8,19 24,23	67			GP	sandy GRAVEL, rounded, 1/4" to 1" diameter
30		7,14 16,11	25	BG			
35		10,17 17,18	67 67	BG		SW	gravelly SAND, medium to coarse grained
40						GP	sandy GRAVEL, brown, rounded, 1/8" to 1" diameter
45		12,11 10,10	75	BG		SW	SAND, medium to coarse grained, brown, well sorted
50		8,12 12,12	71	BG			trace silt from 50.4 to 51.2 ft.
55		5,8 9,9	88	BG			orange and black streaks at 56 ft.
60			84	BG			
65			50	BG			Groundwater encountered at 65.5 ft. gravelly SAND Flowing sand encountered below water table Domestic water used to drill to 73.5 ft.
70							
75							END OF BORING Note: Groundwater level reflects static water level on 12/12/91
80							

WELL DIAGRAM



JOB NUMBER: 401171

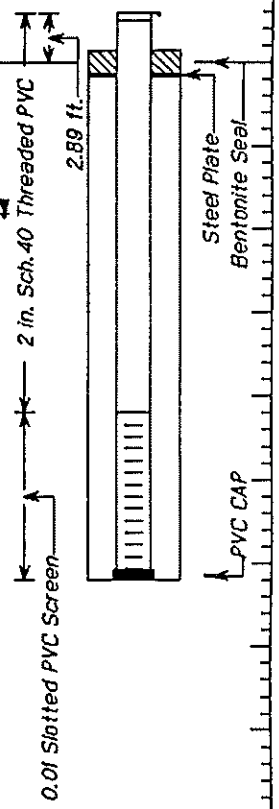
BG indicates HNU reading of 0.0 ppm above background

DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-4 | CLIENT DUPONT POLYMERS
PROJECT WASHINGTON WORKS VI | DRILLING COMPANY H.C. NUTTING, INC.
LOCATION PARKERSBURG, WV | DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
DATE DRILLED 11/14/91 | SAMPLING METHOD SPLIT SPOON
LOGGED BY L. ALBERTI | TOP OF CASING ELEV. 593.01

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	USCS	DESCRIPTION AND REMARKS
						Surface Conditions: Grassy
0		10,13	58	BG	OL	TOPSOIL
5		12,14 14,17 17,18	48	BG	ML	clayey SILT, brown white angular gravel 0.6–0.9 ft.
10		2,3 5,8	100	0.3	CL	silty CLAY, reddish brown, medium to high plasticity trace sand 10–10.3 ft.
15						Groundwater encountered at 18.5 ft.
20		0,2 4,2	100	8.2	ML/CL	clayey SILT/silty clay, gray, low to medium plasticity
25						
30		3,5 17,20	88	BG	SM	silty SAND, gray, trace gravel
35		15,19 19,22	33	1.2	SW	gravelly SAND, gray, gravel increasing downward
40						END OF BORING Note: Groundwater level reflects static water level on 12/12/91
45						
50						
55						
60						
65						
70						
75						
80						

WELL DIAGRAM



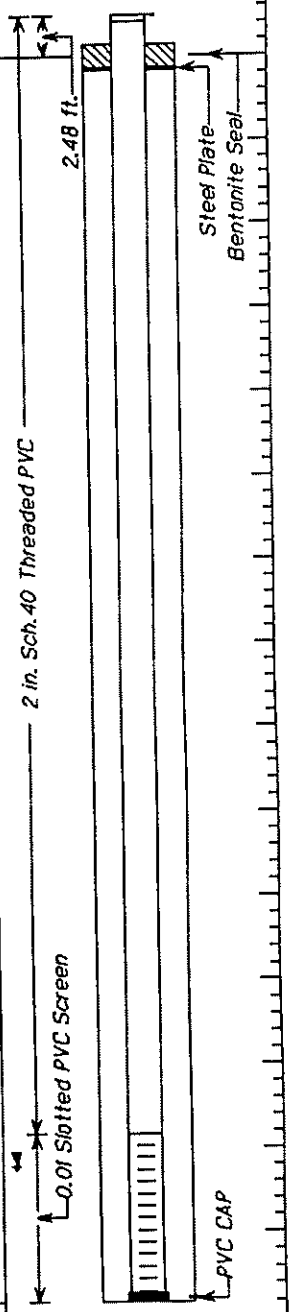
JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-5 | CLIENT DUPONT POLYMERS
PROJECT WASHINGTON WORKS VI | DRILLING COMPANY H.C. NUTTING, INC.
LOCATION PARKERSBURG, WV | DRILLING METHOD 4" I.D. HOLLOW STEMMED AUGER
DATE DRILLED 11/19/91 | SAMPLING METHOD SPLIT SPOON
LOGGED BY L. ALBERTI | TOP OF CASING ELEV. 633.55

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
0							Surface Conditions: Gravel
						FILL	GRAVEL FILL, concrete and rock 3"-5" diameter
5		5,6 7,5	100	BG		SM	silty SAND, brown, fine grained
10		4,3 5,5	100	BG			layers of well sorted SAND
15						GP	cobbles encountered at 13.5 ft.
20		14,28 29,22	33	BG			sandy GRAVEL, brown, poorly sorted, 1/4"-2" diameter
25							
30		13,14 17,12	78	BG			GRAVEL and sand mixture, subrounded gravel
35		30,40 10,22	78 50				
40			92				
45							
50		14,16 16,14	50	BG		SM	SAND, brown, fine grained, some silt, very low plasticity
						SW	
55		8,14 15,10	71	BG			gravelly SAND, brown, medium to coarse grained, little to no fines
60		14,18 22,28	75	BG			
65							Groundwater encountered at 66.5 ft.
70							Flowing sand encountered below water table Domestic water used to drill to 74.2 ft.
75							END OF BORING
80							Note: Groundwater level reflects static water level on 12/12/91

WELL DIAGRAM



JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

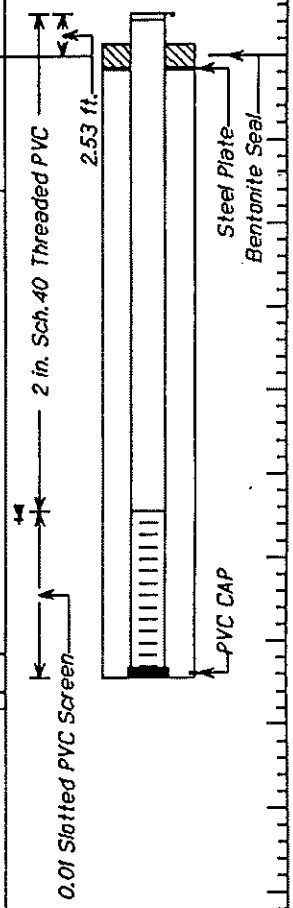
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-6
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/13/91-11/14/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 595.52

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
0							Surface Conditions: Grassy
		5,9	46	BG		ML	clayey SILT, brown
		10,13		BG			gray-green sand layer at 0.7-0.8 ft.
5		7,11					
		11,8					Groundwater encountered at 8 feet drilling
10		3,5	79	BG		CL	silty CLAY, brown-gray, medium to high plasticity
		7,10					black flecks of ash
15							
20		2,3	100	BG			
		2,4					
25							
30		5,5	100	BG			
		8,9					
35		6,8	100	4.1		SC	SAND and gravel in reddish brown clay matrix
		5,9	88			SW	gray-blue clay and yellow sand from 36-37 ft.
40							gravelly SAND, dark brown, little fines
							SAND, well-sorted, brown
45							END OF BORING
							Note: Groundwater level reflects static water level on 12/12/91
50							
55							
60							
65							
70							
75							
80							

WELL DIAGRAM



JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

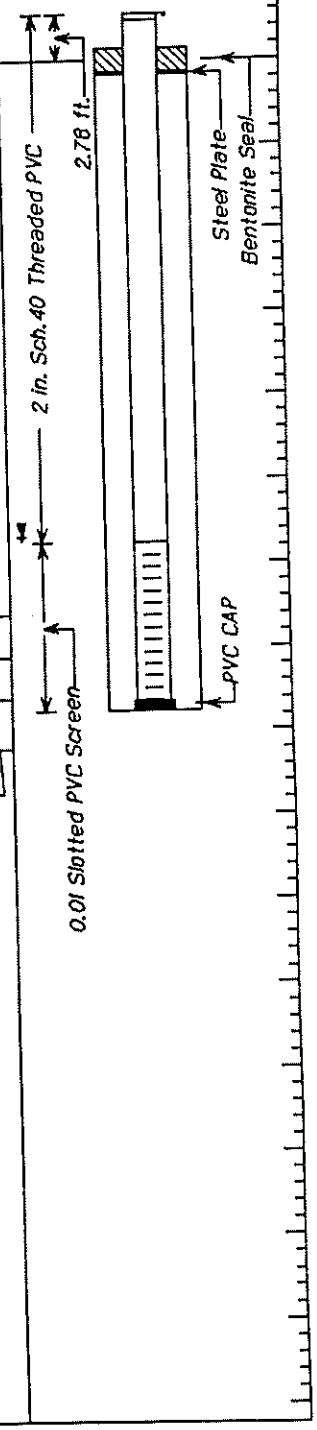
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-7
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/13/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 597.17

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
							Surface Conditions: Grassy
0		5,5	85	BG		OL	TOPSOIL, with grass roots
		5,5	12	BG		ML	SILT, reddish brown, sandy
5							clayey SILT, gravelly, brown
10		3,4	88	BG		CL	silty CLAY, reddish brown, medium to high plasticity
		5,6					
15							Groundwater encountered at 18 ft. drilling
20		3,6	98	1.0			
		9,12					
25		6,10	98	BG			trace pebbles, sand at 25 ft.
		12,14					occasional gray silt stringers
30		3,5	100	1.0			some black flecks of ash
		1,8					
35		3,5	80	0.8		ML	silty CLAY grading into sandy silt, fines decreasing
		13,12				SC	clayey SAND, gravelly
40		8,9	100	1.2		SM	silty SAND, fine to coarse grained
		9,13					orange and black bands of sand and clay from 39.7' to 41'
45							END OF BORING
							Note: Groundwater level reflects static water level on 12/12/91
50							
55							
60							
65							
70							
75							
80							

WELL DIAGRAM



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

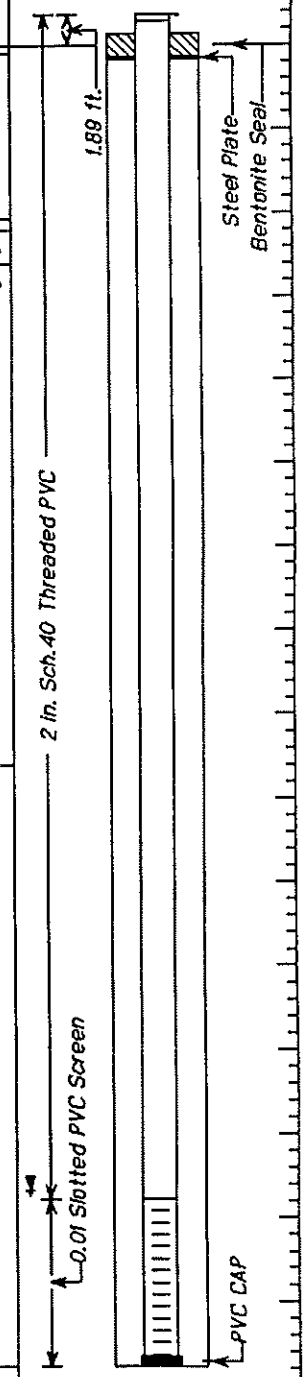
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-8
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/18/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEMMED AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 831.77

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	USCS	DESCRIPTION AND REMARKS
						Surface Conditions: Gravel
0					FILL	GRAVEL FILL
					ML	clayey SILT, reddish brown, some gravel
5						sandy SILT, brown/red-brown
10		4,5 5,6	83		SM	silty SAND, gravelly, brown, some silt stringers
					SW	gravelly SAND, medium to coarse grained
15					GP	cobbles encountered at 13.0 ft.
20		15,20 21,20	58	BG		sandy GRAVEL, light brown, sub-rounded, 1/4"-2" diameter
25						
30		14,18 18,24	75	BG		GRAVEL and sand, brown, little to no fines
35		11,17 19,16	67 79	BG		black peat fragments 1/2" wide
40						
45		4,8 28,20	67		SW	SAND, brown, medium to coarse grained, some fine grained sand
50						trace gravel
55		8,8 16,17	71	BG		SAND, well sorted, trace gravel
60		11,14 15,18	78	BG		trace silt Dry
65						
70						Groundwater encountered at 69 ft. Flowing sand encountered below water table Domestic water used to drill to 78.9 ft.
75						Note: Groundwater level reflects static water level on 12/12/91
80						END OF BORING

WELL DIAGRAM



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

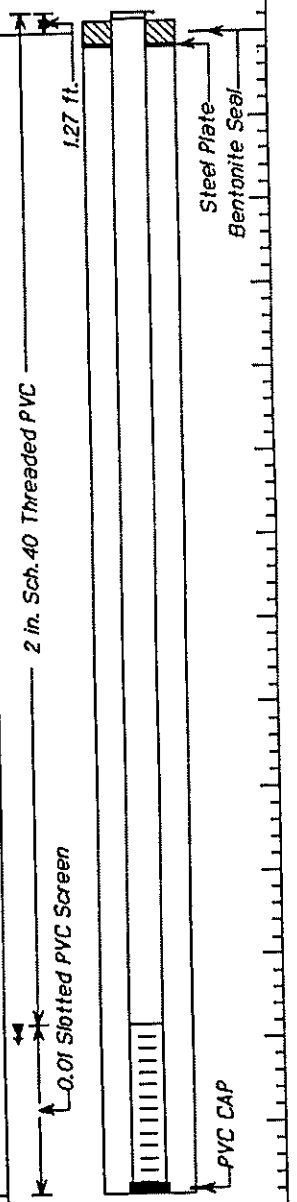
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-9
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/16/91 - 11/17/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 631.29

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
							Surface Conditions: Grassy
0		5,5 6,8	63	BG		OL	TOPSOIL
						ML	clayey SILT, brown, trace fine sand
5		4,5 5,6	67	BG		SM	silty SAND, reddish brown, fine to medium grained, with 1" layers of sand
10		5,8 8,6	58	BG		SP	gravelly SAND, silty, brown, with black pieces of coal or ash, 1/2" to 1" diameter gravel
15			41	0.1		SW/GP	gravelly SAND, brown, medium to coarse grained, gravel sub angular to rounded
20		6,5 7,7	12	BG			
25		25,22 18,15	58	BG		GP	GRAVEL and sand mixture, brown
30		14,14 15,15	58	BG			gravel cobbles in drill cuttings 2" diameter, rounded
35		30,35 20,21	41 42	BG			
40						SW	SAND, brown, well sorted, trace gravel
45		5,8 13,14	84	BG			
50		11,14 15,18	92	BG			black tar stringers 1/8" wide
55							
60		9,17 12,15	71	BG			Groundwater encountered at 60 ft.
							Flowing sand encountered below water table
65							Domestic water used to drill to 69.2 ft.
70							END OF BORING
75							Note: Groundwater level reflects static water level on 12/12/91
80							

WELL DIAGRAM



JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

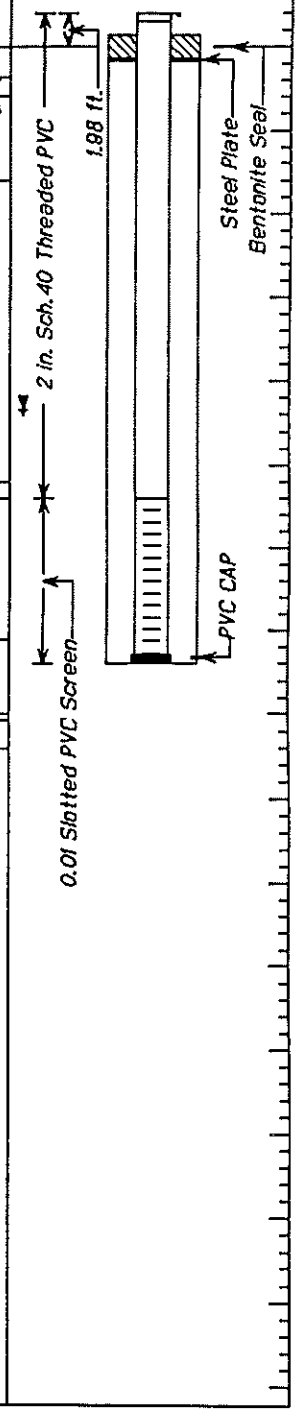
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-10
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/12/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 600.88

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	USCS	DESCRIPTION AND REMARKS
						Surface Conditions: Grassy, ponded water
0		6,9	41	BG	OL	clayey silt TOPSOIL, roots
		14,10			GM	GRAVEL in brown clayey silt matrix
		6,4	12	BG	ML	clayey SILT, brown, medium plasticity
5		3,3				
		2,3	42	BG		
		5,7				
10		4,5	17	BG	CL	
		7,8				silty CLAY, brown, medium plasticity
15		3,5	95	BG		1/4" black spot, possibly ash
		6,7				
20		3,5	100	BG		
		5,7				
25		2,2	100	BG	ML	clayey SILT, brown, with silt stringers, moist
		3,3			CL	silty CLAY, gray, high plasticity
30		4,8	95	BG		Groundwater encountered at 29 ft.
		8,9				
35		5,6	95	BG	SC	clayey SAND, brownish, fine silty clay matrix with well rounded gravel 1-2" at 35.5 ft.
		9,12				
40		8,11	12	BG	CL	CLAY, brown-gray
		12,17			SC	silty SAND, brown-gray, with <1/8" diameter gravel
45						END OF BORING
						Note: Groundwater level reflects static water level on 12/12/91
50						
55						
60						
65						
70						
75						
80						

WELL DIAGRAM



JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

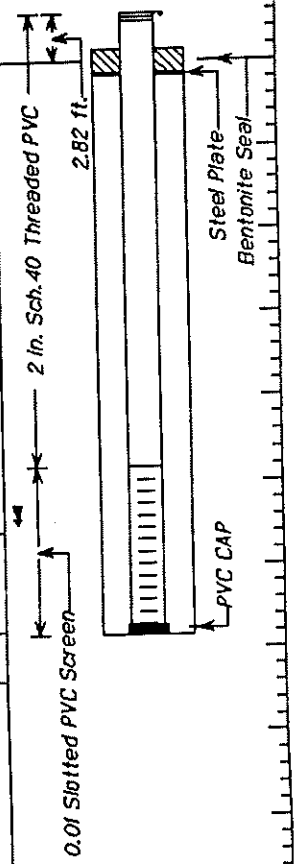
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-11
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/12/91-11/13/91
LOGGED BY T. VANDELL

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 602.18

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
							Surface Conditions: Grass and brush
0		10,12	8	BG		SM	silty SAND, orange, with coarse rock chips
		11,9				SW	gravelly SAND, coarse, (fill)
		9,10	59	BG		CL	silty CLAY, brown
5		9,12					
10		6,9	67	BG			silty CLAY, reddish brown, medium to high plasticity
		11,12					
15							
20		4,5	99	BG			
		5,7					
25							
30		6,8	71	BG		SC	clayey SAND, coarse, red-brown, some gravel 1/2" diameter, saturated
		8,8					
35		7,9	29	BG		SM	silty SAND, coarse, red-brown, some well rounded gravel 1/8" diameter
		11,10					END OF BORING
40							Note: Groundwater level reflects static water level on 12/12/91
45							
50							
55							
60							
65							
70							
75							
80							

WELL DIAGRAM



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

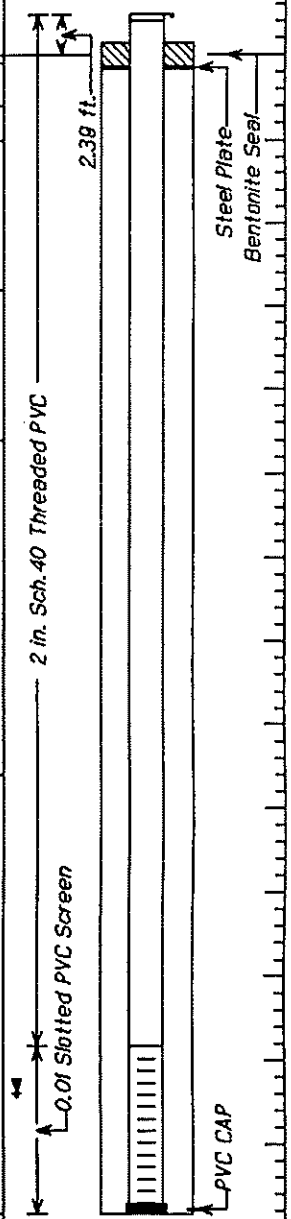
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER RBLMW-12
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/17/91 – 11/18/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 636.16

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
0							Surface Conditions: Gravel
		17,17 21,12	17	BG		FILL	sandy GRAVEL (fill)
						ML	clayey SILT, brown, orange and gray zones
5						ASH	black ASH in drill cuttings
						ML	Butacite rework pieces 4"x2"
10		4,5 6,6	84	BG			sandy SILT and fine sand, reddish brown, low plasticity
15						SW	
20		3,5 4,5	50	BG			gravelly SAND, coarse grained, slightly moist
25						GP	cobbles encountered at 23.0 ft.
30		4,17 18,12	83	BG			GRAVEL and sand, brown, little to no fines, rounded, 1/4" – 2" diameter
35		4,8 6,5	17 50				
40			50				
45		10,13 13,14	71	BG		SW	SAND, well sorted, orange-brown, trace 1/2" gravel
50		5,7 9,12	83	BG			brown SAND, some 1" gravel
55							
60		12,18 20,18	75	BG			Groundwater encountered at 61 ft.
65							Flowing sand encountered below water table
							Domestic water used to drill to 69.2 ft.
70							END OF BORING
75							Note: Groundwater level reflects static water level on 12/12/91
80							

WELL DIAGRAM

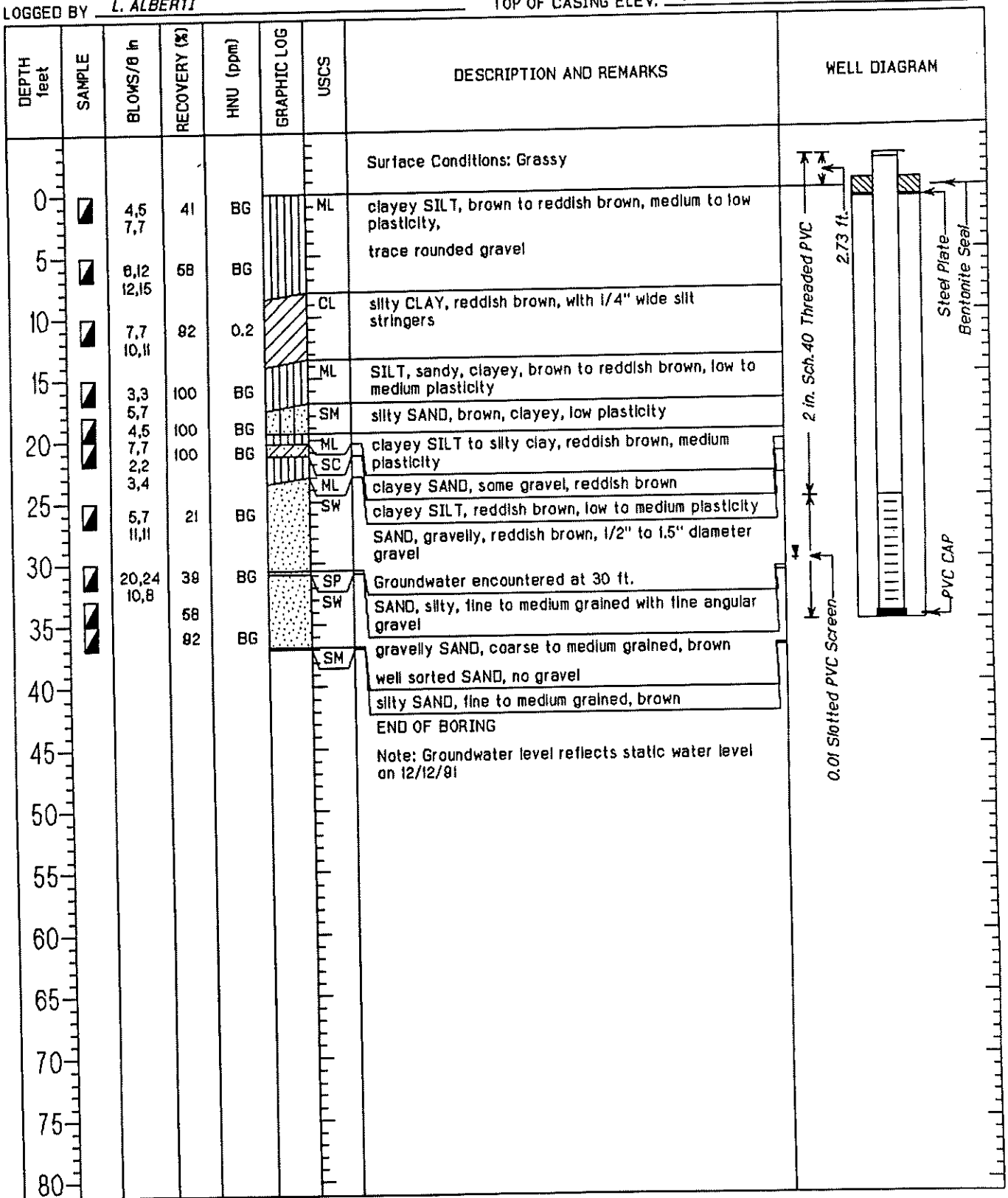


JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER ADPMW-1
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/15/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 599.10



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

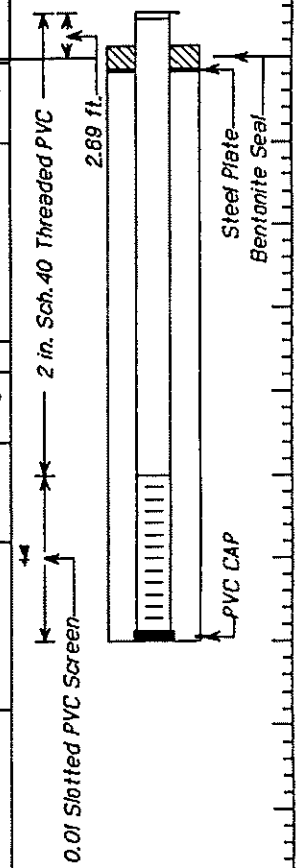
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER ADPMW-2
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/15/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 588.08

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
							Surface Conditions: Grassy
0		5,5 5,7	48	BG		OL	TOPSOIL, brown, roots, clayey silt
						ML	clayey SILT, brown, medium to low plasticity, trace gravel
5		8,10 13,14	75	BG		ML/CL	clayey SILT/silty CLAY, reddish brown, medium plasticity, dry, hard
10		7,10 13,14	100	0.2			white-gray teflon fragments 1/2" diameter, 1"-3" long
15		4,4 4,7	100	BG			
		4,5 7,7	100	BG		ML	clayey SILT, grading into sandy silt, low to medium plasticity
20						SM	silty SAND, brown, gravelly
25		10,8 7,9	71	BG		SP	SAND, fine to coarse grained, reddish brown, trace gravel and silt, slightly moist
30		5,7 7,8	67	BG		SW	SAND, medium to coarse grained, reddish brown
							Groundwater encountered at 30 ft.
35				BG			black blobs of tar or grease from 30.5-31.3 ft.
			100	BG			gravelly SAND, alternating gravel/sand layers
40							END OF BORING
45							Note: Groundwater level reflects static water level on 12/12/91
50							
55							
60							
65							
70							
75							
80							

WELL DIAGRAM



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

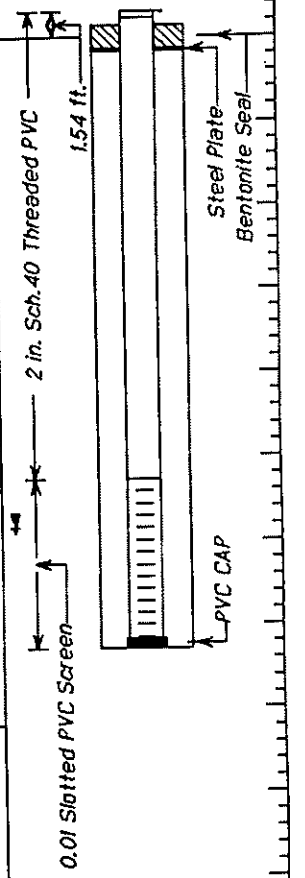
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER AOPMW-3
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/16/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 596.67

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	USCS	DESCRIPTION AND REMARKS
						Surface Conditions: Grassy
0		8,8 9,10	41	BG	OL	TOPSOIL, grass roots
					ML	clayey SILT, brown, low to medium plasticity, trace gravel
5		5,6 10,12	71	BG		flecks of white/gray material that smell like supernate from 5-5.5 ft.
10		4,4 8,10	92	BG	CL	silty CLAY, reddish brown, medium plasticity, occasional silt stringers, supernate odor
15		3,6 8,9	100	BG	ML/SM	clayey SILT, grading into sandy silt, sand increasing downward
20		5,5 5,6	100	BG		sandy SILT/silty SAND, red-brown with orange and black bands
25		7,10 10,10	84	BG	SP	SAND, fine to coarse grained, reddish brown, trace gravel, moist
30		8,8 8,9	75	BG	SW	gravelly SAND, medium to coarse grained, reddish brown
						Groundwater encountered at 30 ft.
35		7,8 10,9	84	BG		black blobs of tar from 30-31.6 ft.
			100	BG		
40			71	BG		
						END OF BORING
45						Note: Groundwater level reflects static water level on 12/12/91

WELL DIAGRAM



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

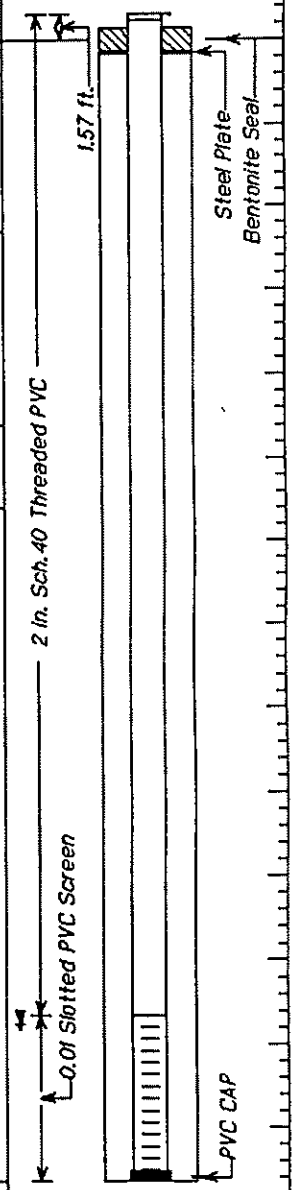
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER BGMW-1
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 12/6/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 630.38

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
0							Surface Conditions: Large angular gravel
		6,10	75	BG		GC	GRAVEL, clayey, sandy, brown (1111)
		8,7				SM	silty SAND, brown, fine grained
5		3,3	28	BG			occasional bands of sandy silt
		3,8	21	BG			
10			50	BG			
						GP	GRAVEL, cobbles encountered
15		7,7	54	BG			sandy GRAVEL, dark brown
		6,5					1/2" black ash at 15.6'
20		21,25	88	BG			
		28,32					
						GW	sandy GRAVEL, brown, less sand, moist
25		25,30	33	BG			
		37,30					
30		13,25	58	BG		SW	
		38,38					
35		12,18	83	BG			gravelly SAND, brown, medium to coarse grained
		14,12					
40		10,20	71	BG			SAND, well sorted, brown, medium grained
		27,32					
45		12,14	75	BG			
		25,30					
50		10,14	71	BG			
		28,28					
55		13,24	83	BG			trace 1/4"-1" diameter gravel
		34,38					
60							Groundwater encountered at 59 ft. drilling
							Flowing sand encountered below water table
65							Domestic water used to drill to 88.3 ft.
70							END OF BORING
75							Note: Groundwater level reflects static water level on 12/13/91
80							

WELL DIAGRAM



JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

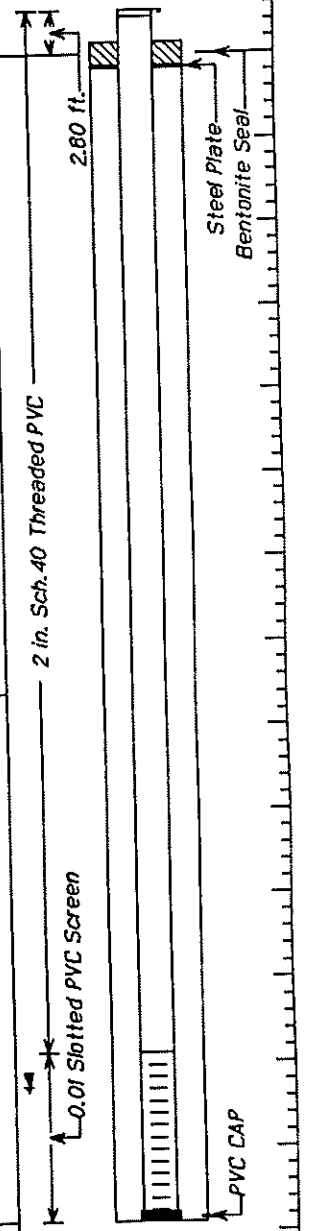
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER BGMW-2
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 12/5/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 632.40

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
							Surface Conditions: Gravel, 4 ft. from road
0		42,27	12	BG		GM	GRAVEL and silt, brown (fill)
		17,7	50	BG		ML/SM	sandy SILT and silty SAND, brown to reddish brown, low plasticity
5		4,5 5,7	84	BG			
10		6,8 7,8	79	BG			
15		7,5 8,7	8			GP	GRAVEL, cobbles encountered sandy GRAVEL, brown
20		3,5 8,8	48	0.1		SW	SAND, brown, well sorted,
						PT	black soot-like substance (Peat)
25		3,5 8,8	41	BG		GP	
30		5,7 7,8	54	0.2			sandy GRAVEL, brown, 1/8" – 1" diameter
35		15,32 30,38	50	0.2			
40		12,15 12,13	78	0.4		SW	SAND, gravelly, brown, medium to coarse grained
45		10,28 30,40	33	0.3			well sorted SAND
50		8,9 8,9	67	0.3			some 1/4" bands of black soot
55		19,17 14,8	75	0.2			
60		6,5 4,5	84	BG			Groundwater encountered at 61.5 ft. drilling Flowing sand encountered below water table Domestic water used to drill to 69.5 ft.
65							
70							END OF BORING
75							Note: Groundwater level reflects static water level on 12/13/91
80							

WELL DIAGRAM



JOB NUMBER: 401171

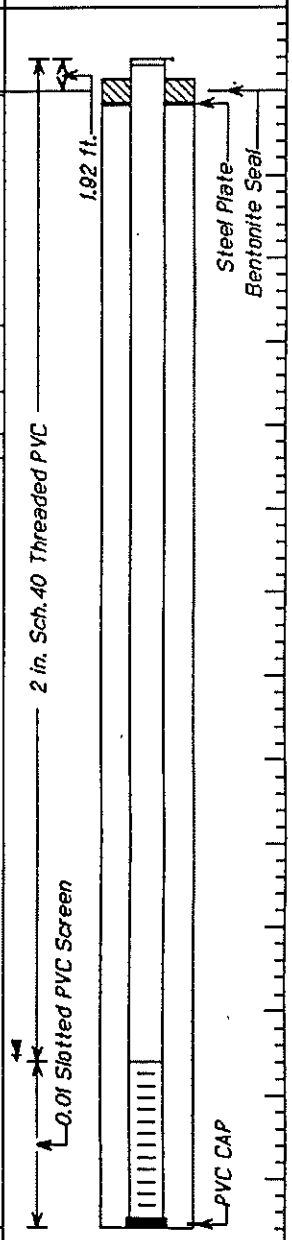
BG indicates HNU reading of 0.0 ppm above background

DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER BGMW-3 | CLIENT DUPONT POLYMERS
PROJECT WASHINGTON WORKS V1 | DRILLING COMPANY H.C. NUTTING, INC.
LOCATION PARKERSBURG, WV | DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
DATE DRILLED 12/6/91 | SAMPLING METHOD SPLIT SPOON
LOGGED BY L. ALBERTI | TOP OF CASING ELEV. 629.15

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	USCS	DESCRIPTION AND REMARKS
0						Surface Conditions: Gravel sprayed with tar for dust control. Semi-trailer staging area.
0	■	25,14 18,18	100	0.3	GP ML	GRAVEL and tar chips, gray
5	■	7,8 9,15	92	BG		clayey SILT, reddish brown, dry, hard, with occasional fine sand stringers and black flecks of ash
10	■	4,4 6,7	98	BG		
15	■	13,18 18,16	50	BG	GM	cobbles encountered
					SW	silty GRAVEL, some red, green and gray gravel fragments, 1/2" – 1" diameter
20	■	5,2 2,4	58	BG	GW	gravelly SAND, brown, coarse
					SW	sandy GRAVEL, brown, 1/8" – 1" diameter, wet
25	■	8,5 4,8	58	BG		gravelly SAND, medium to coarse grained, wet
30	■	2,3 5,5	75	BG		well sorted SAND, brown, slightly moist
35	■	4,5 8,7	42	BG		gravelly sand/gravel layer, 1/2" black ash @35.7'
40	■	8,8 12,14	79	BG		well sorted SAND occasional 1/4" wide bands of black ash
45	■	11,13 16,18	84	BG		
50	■	5,11 13,15	75	BG		
55	■	7,12 15,15	67	BG		
60						Groundwater encountered at 59 ft. drilling
65						Flowing sand encountered below water table Domestic water used to drill to 68 ft.
70						END OF BORING
75						Note: Groundwater level reflects static water level on 12/13/91
80						

WELL DIAGRAM



JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

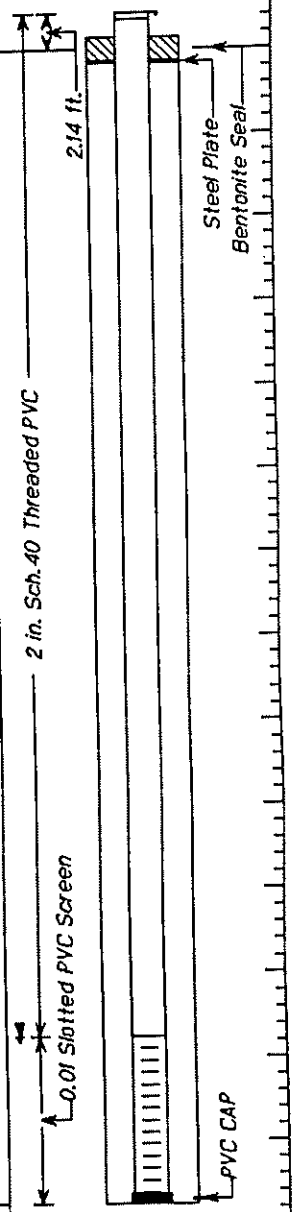
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER BGMW-4
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 12/4/91-12/5/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 630.62

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
							Surface Conditions: Grassy
0						ML	0-3' hand dug SILT, clayey, sandy, brown
5	■	5,7 7,8	84	BG			SILT, clayey/sandy, reddish brown
10	■	5,4 3,4	100	BG		SM	grading into silty SAND, sand increasing downward
15	■	8,8 6,8	46	BG			SAND, silty, gravelly
20	■	8,7 8,7	41	BG		GP	sandy GRAVEL, brown, 1/2" - 1" diameter
25	■	4,8 7,7	75	BG		SW	SAND, brown, medium to coarse grained, moist
30	■	4,8 7,8	37	BG			
35	■	8,20 20,14	33	BG		GP	sandy GRAVEL,brown
40	■	8,15 17,21	75	BG		SW	some 1/4" wide black streaks at 40.3'
45	■	11,18 30,30	67	0.2			SAND, well sorted, brown, medium grained
50	■	18,18 27,32	78	BG			
55	■	17,17 20,25	92	BG			gravelly sand layer at 55.5'-55.8'
60	■	8,18 25,22	84	BG			Groundwater encountered at 60 ft. drilling Flowing sand encountered below water table Domestic water used to drill to 68.8 ft.
65							
70							END OF BORING
75							Note: Groundwater level reflects static water level on 12/13/91
80							

WELL DIAGRAM



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

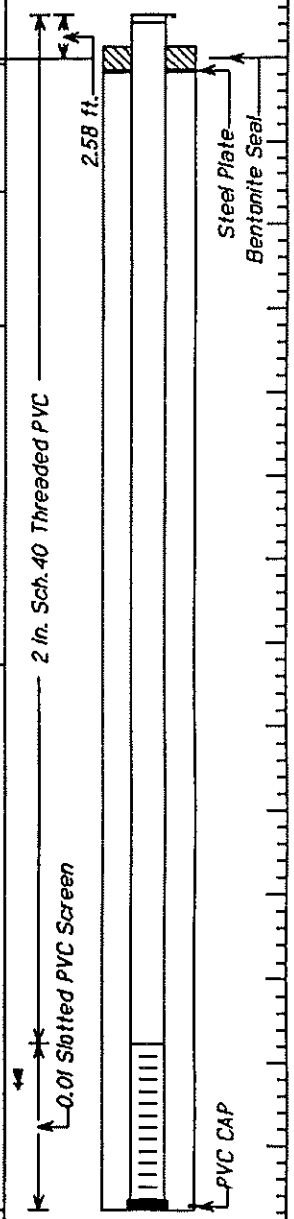
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER BGMW-5
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 11/21/91-12/3/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 634.63

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	USCS	DESCRIPTION AND REMARKS
0						Surface Conditions: Grassy/gravelly
		12,20	84	20	CL	sandy CLAY, reddish brown
		18,14			ML	SILT, clayey, gravelly, reddish brown
5		5,5	84	10		
		5,8				some fine sand
10		5,5	100	15	SM/ML	silty SAND/sandy silt, brown
		5,5				
15		7,5	42	8.0		
		4,8			GP	sandy GRAVEL, brown
20		8,18	75	12.8		sand and gravel with some clay at 20'-21.8'
		25,30				
25		18,20	37	2.0		sandy GRAVEL, brown to light gray, sub-rounded, 1/4" - 1" diameter, dry
		18,18				
30		5,5	42	1.0		
		5,4				
35		45,85	78	1.8		
		50,38			SW	SAND, brown, medium to coarse grained
40		20,40	87	1.8		gravelly SAND
		32,34				
45		10,18	71	3.1		well sorted SAND
		18,28				
50		5,12	92	5.2		trace gravel
		10,12				
55		8,10	54	2.8		
		9,9				
60		13,22	75	BG		Groundwater encountered at 59.5 ft. drilling
		25,25				Flowing sand encountered below water table
65						Domestic water used to drill to 68.9 ft.
70						END OF BORING
						Note: Groundwater level reflects static water level on 12/12/91
75						
80						

WELL DIAGRAM



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

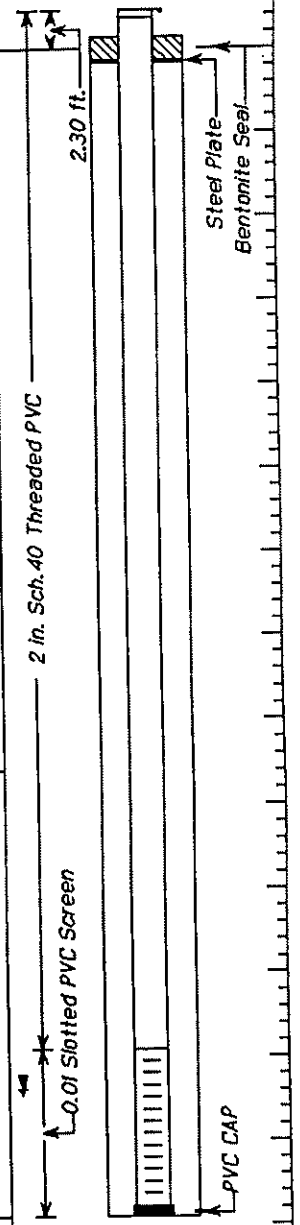
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER BGMW-6
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 12/3/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 634.92

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
							Surface Conditions: Grassy, 4' from gravel shoulder of road
0		9,13 18,18	92	BG		OL	TOPSOIL, dark brown with grass roots
						ML	SILT, clayey, sandy, reddish brown and dark brown
5		7,5 8,7	83	BG		SM	silty SAND, reddish brown
10		8,8 8,8	67	BG		SW	SAND, brown, well sorted, medium grained, occasional 2" silt stringers, trace gravel
15		5,8 8,10	78	BG		SM	silty SAND, brown, fine to medium grained
						SW	SAND, brown, well sorted
20		5,7 7,7	83	BG		GP	sandy GRAVEL, brown, 1/4"-1" diameter little to no fines
25		13,13 13,13	0				
30		10,12 10,12	67	BG			
35		19,28 38,85	84	BG			
40		22,68 74,34	79	BG			sandy layer from 40'-40.8'
45		8,13 22,25	83	BG		SW	SAND, brown, well sorted, medium grained trace 1/4" diameter gravel
50		19,22 25,30	75	BG			
55		18,28 36,42	75	BG			
60		12,38 36,27	92	BG			Groundwater encountered at 61.7 ft. drilling Flowing sand encountered below water table Domestic water used to drill to 69.6 ft.
65							
70							END OF BORING
75							Note: Groundwater level reflects static water level on 12/12/91
80							

WELL DIAGRAM



JOB NUMBER: 401171

BG indicates HNU reading of 0.0 ppm above background

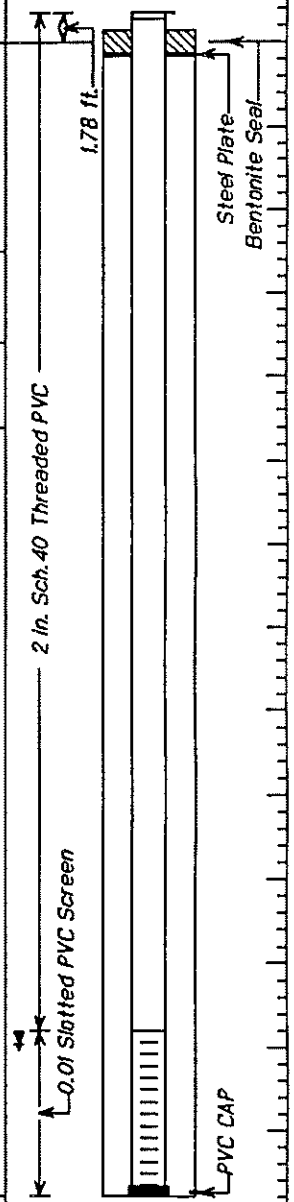
DU PONT ENVIRONMENTAL REMEDIATION SERVICES

BORING NUMBER BGMW-7
PROJECT WASHINGTON WORKS VI
LOCATION PARKERSBURG, WV
DATE DRILLED 12/4/91
LOGGED BY L. ALBERTI

CLIENT DUPONT POLYMERS
DRILLING COMPANY H.C. NUTTING, INC.
DRILLING METHOD 4" I.D. HOLLOW STEM AUGER
SAMPLING METHOD SPLIT SPOON
TOP OF CASING ELEV. 831.97

DEPTH feet	SAMPLE	BLOWS/6 in	RECOVERY (%)	HNU (ppm)	GRAPHIC LOG	USCS	DESCRIPTION AND REMARKS
0							
		17,20	87	BG		ML	SILT, sandy, reddish brown, some gravel (fill)
		24,17					
5		5,5	84	BG			clayey SILT
		5,5					
10		6,5	50	BG			sandy SILT, sand increasing downwards
		8,7					
						SM	silty SAND, brown, with some gravel and black soot
15		8,8	12	BG			
		12,18					
						GP	
20		5,7	54	BG			sandy GRAVEL, brown, 1/4"-1" diameter
		8,1					
						SW	
25		5,4	58	BG			SAND, brown, well sorted, medium grained,
		3,4					
30		4,5	50	BG			gravelly SAND
		7,8					
35		17,19	63	BG			
		34,30					
40		15,18	63	BG			
		24,18					
45		8,9	79	BG			well sorted SAND, medium to coarse grained
		18,21					
50		9,28	75	BG			
		45,45					
55		11,14	54	BG			
		44,17					Groundwater encountered at 60 ft. drilling
60			87	BG			0.4 ft. layer of sand in dark brown fine silt matrix, saturated
							Flowing sand encountered below water table
65							Domestic water used to drill to 69.0 ft.
70							END OF BORING
							Note: Groundwater level reflects static water level on 12/12/91
75							
80							

WELL DIAGRAM



JOB NUMBER: 401171 BG indicates HNU reading of 0.0 ppm above background

LOCAL LANDFILL CROSS SECTIONS G-G' AND H-H' *

(FIGURES B-23 AND B-24)

* NOTE: ORIGINAL REPORT TITLED AS A-A' AND B-B'

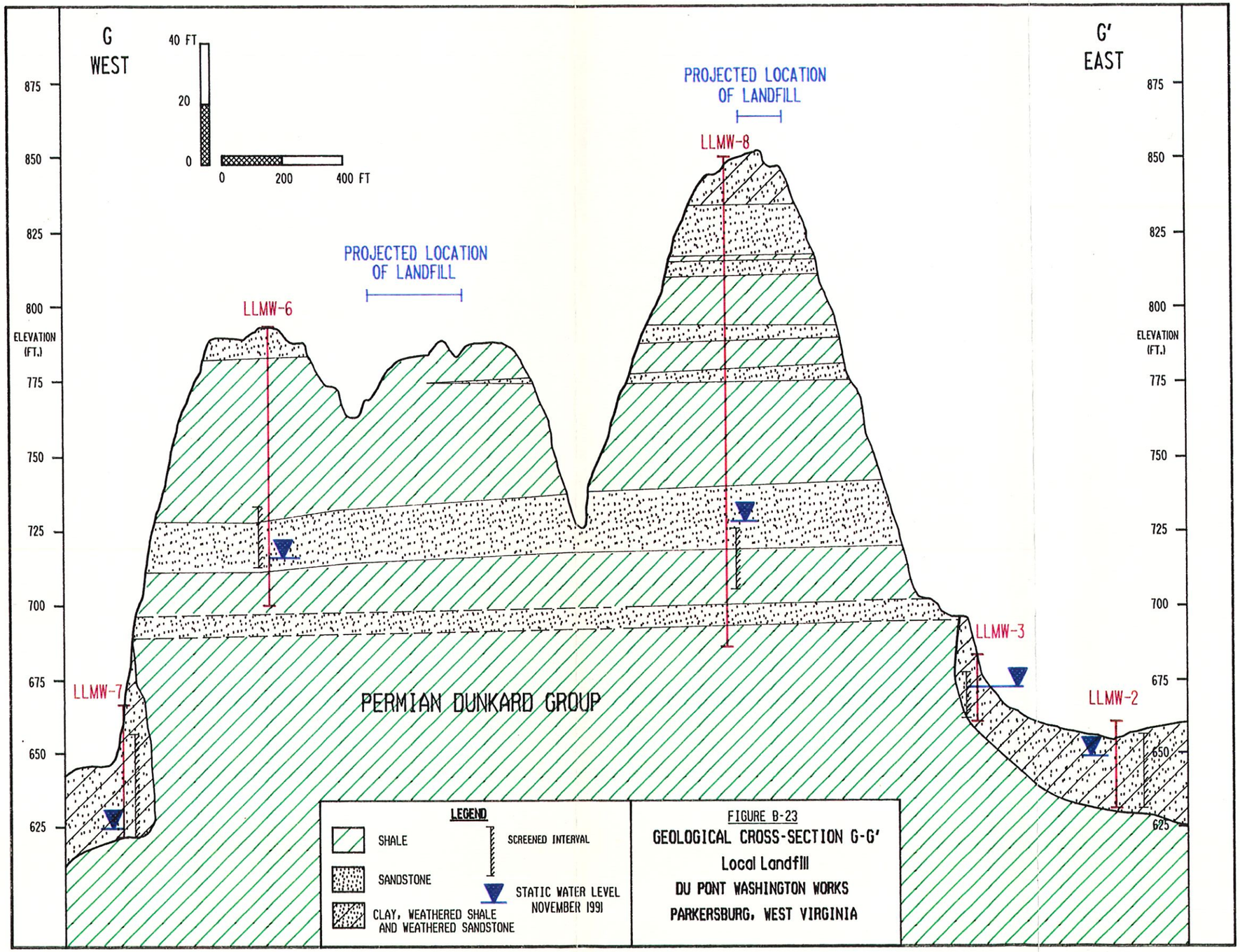


FIGURE B-23

GEOLOGICAL CROSS-SECTION G-G'

Local Landfill

DU PONT WASHINGTON WORKS

PARKERSBURG, WEST VIRGINIA

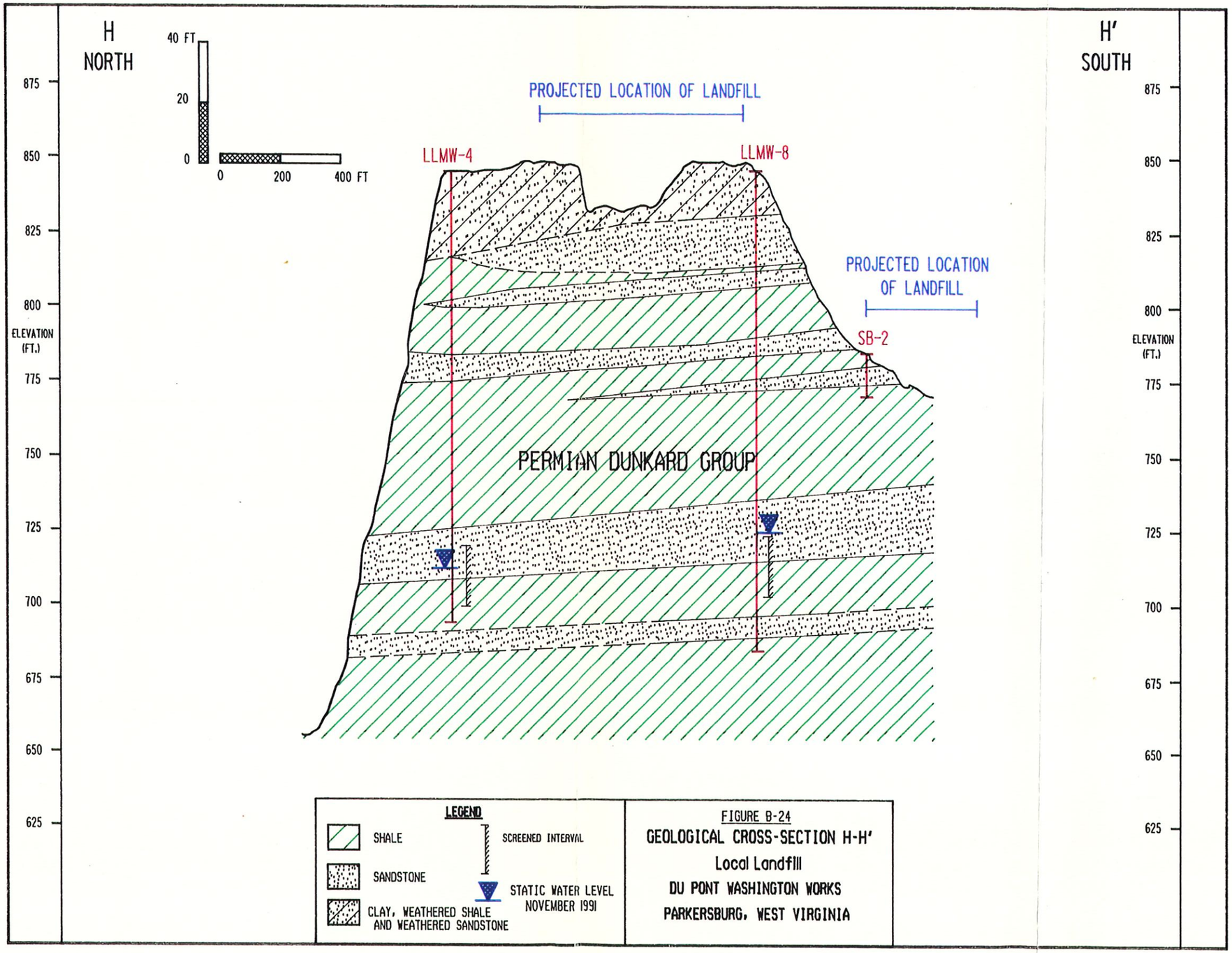


FIGURE B-24

GEOLOGICAL CROSS-SECTION H-H'

Local Landfill

DU PONT WASHINGTON WORKS

PARKERSBURG, WEST VIRGINIA

ATTACHMENT B-1.

LOCAL LANDFILL MONITOR WELL GEOLOGIC LOGS
AND TECHNICAL SPECIFICATIONS

WELL SPECIFICATIONS

Local Landfill

	1 (LLMW1)	2 (LLMW2)	3 (LLMW3)	4 (LLMW4)	5 (LLMW5)	6 (LLMW6)	7 (LLMW7)	8 (LLMW8)
Date Installed	9/08/89	9/13/89	9/14/89	9/29/89	9/15/89	9/28/89	9/27/89	10/02/89
Total Depth Below Grade	39'	23'	21'	155'	36'	90'	29'	147'
Screened Interval*	653.9-673.9	631.1-649.1	660.6-675.6	697.2-717.2	636.2-656.2	703.2-723.2	623.7-643.7	703 - 723
Cased Interval*	673.9-687.9	649.1-651.1	675.6-680.6	717.2 844.7	656.2-672.2	723.2-793.2	643.7-652.7	723 - 845
Packed Interval*	648.9-675.9	631.1-651.1	660.6-677.6	692.2 719.7	672.2-662.7	703.2-725.7	623.7-645.7	698 - 725
Grouted Interval*	677.9-687.9	651.6-654.1	678.1-680.6	722.7 844.7	664.7-672.2	728.2-793.2	647.7-652.7	727 - 845
Bentonite Seal*	675.9-677.9	651.1-651.6	677.6-678.1	719.7 722.7	662.7-664.7	725.7-728.2	645.7-647.7	725 727
Static Water Elevations*	677.4	649.6	675.0	714.7	652.2	720.9	634.7	779.2

*Elevations are feet above mean sea level.

WELL DEVELOPMENT SPECIFICATIONS

Local Landfill

	1 (LLMW1)	2 (LLMW2)	3 (LLMW3)	5 (LLMW5)	7 (LLMW7)
Depth of Water (feet)	20.6	4.53	5.6	20.0	18.0
Total Depth of Well (feet)	39	23	21	36	29
Total Time Surged (minutes)	25	25	20	20	25
Total Volume Purged (gallons)	40	60	50	35	20
Initial Water Characteristics	Turbid	Turbid	Very Turbid	Turbid	Very Turbid
Well Yield (gallons/minute)	<1.0	@ 0.5	0.5	<0.5	@ 0.1
Recovery Rate (gallons/minute	Fair	Good	Fair	Poor	Very Poor
Water Characteristics	Turbid	Slightly Turbid	Turbid	Turbid	Turbid

NA - not applicable

*Air Lift Development

BEDROCK & SHELBY TUBE INFORMATION

Local Landfill

Well	Depth* to Bedrock	Depth* of Shelby Tube & Proctor Samples	Lithology
1 (LLMW1)	40.0	3.0 - 5.0	weathered red shale
		5.0 - 7.0	weathered red shale
2 (LLMW2)	23.0	7.5 - 9.5	reddish brown & yellow mottled clay
3 (LLMW3)	21.0	2.5 - 4.5	reddish brown clay with trace sand
		5.0 - 7.0	weathered red shale
4 (LLMW4)	31.6	7.5 - 9.5	gray to brown silt
		10.0 - 12.0**	weathered red shale
5 (LLMW5)	35.0	5.0 - 7.0	red clay
		7.5 - 9.5	red clay
6 (LLMW6)	2.0	None Taken	
7 (LLMW7)	30.5	2.5 - 4.5	mottled red clay with trace sand
		5.0 - 7.0	weathered red shale
8 (LLMW8)	14	None Taken	

* Measured in feet
**Bag sample not collected

TETRA TECH RICHARDSON
WELL DRILLING LOG

PERMIT NO.
SHEET: 1 OF: 3

PROJECT: DUPONT WASHINGTON WORKS - LOCAL
PROJECT NO: 3851

WELL DESIGNATION: MW-1 (LLMW-1)
DATE(S) DRILLED: 9/08/89

DRILLING CONTRACTOR: TRIAD ENGINEERING CONSULTANTS
DRILLING METHOD: Hollow-Stem Auger

BORING DIAMETER: 10" SAMPLING METHOD: Split Spoon/Rock Coring
SAMPLING INTERVAL: Standard Penetration & Continuous Rock Coring

LOGGED BY: C. A. Burns
TOTAL DEPTH: 150' Boring 39' Well

SCREEN SIZE AND MATERIAL: 4" 0.010 slot schedule 40 PVC
SCREENED INTERVAL: 34-14'

CASING SIZE AND MATERIAL: 4" PVC
CASED INTERVAL: 14-0'

GRAVEL PACK SIZE: #2 Morie Sand
PACKED INTERVAL: 39-12'

GROUT TYPE: Cement
GROUTED INTERVAL: 10-0'

GROUTING METHOD: Pressure
BENTONITE SEAL: 12-10'

DEVELOPMENT METHOD: Mechanical surging/pumping Surged for 25 min. Pumped 40 gals
ESTIMATED YIELD: <1 gpm

STATIC WATER DEPTH: 20.5' DATE: 10/03/89 REFERENCE: Top of PVC Casing

REMARKS: After rock coring was completed, hole was grouted up to 39'. This was done because first water bearing zone encountered was in overburden. Five feet of blank pipe below screen from 39'-34'. OVERBURDEN WELL

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOVERY (inches)	CLASSIFICATION OF MATERIAL
0 - 3.0	0 - 2.0	3-3-3-4	14	topsoil: mottled red, brown and gray silt and clay
3.0 - 25.0	2.5 - 4.5	6-11-16-33	18	same as above for 6": then shale: red: highly weathered: dry
	5.0 - 7.0	24-30-32-41	14	shale: red: highly weathered: dry
	7.5 - 9.5	29-42-50-50/5"	12	same as above
	10.0 - 12.0	26-29-35-40	20	shale: red & gray: weathered: dry
	15.0 - 17.0	50/5"	5	same as above
	20.0 - 22.0	50/5"	5	same as above: very dry

TETRA TECH RICHARDSON
WELL DESIGNATION MW-1 (LLMW1)

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOV-ERY (inches)	CLASSIFICATION OF MATERIAL
25.0 - 37.0	25.0 - 27.0	50/5"	5	shale: gray; weathered; dry
	30.0 - 32.0	50/6"	6	shale: gray to brown; weathered moist at bottom of spoon
	35.0 - 37.0	50/6"	6	same as above; very dry
37.0 - 38.0	From Auger Cuttings			coal: black; bituminous?; wet
38.0 -	*40 - 42	50/1"	1	shale: gray
	BEGIN ROCK CORING			
(feet)	(feet)		(feet)	
38.0 - 53.2	40.0 - 45.0		4.4	shale: gray; highly weathered
	45-0 - 50.0		4.6	same as above
	50.0 - 60.0		8.3	same as above to 53.2'
53.2 - 53.3				sandstone: fine: gray
53.3 - 54.3				shale: gray; weathered
54.3 - 55.8				siltstone: gray; hard
55.8 - 56.3				shale: gray; weathered
56.3 - 65.0	60.0 - 65.0		5.2	siltstone to sandstone: fine: gray; hard
65.0 - 66.4	65.0 - 75.0		9.9	shale: gray
66.4 - 68.2				siltstone to sandstone: fine: gray; hard
68.2 - 70.0				shale: gray; hard
70.0 - 77.0	75.0 - 85.0		8.5	sandstone: fine: gray
77.0 - 79.0				shale: gray; hard; some red mottling
79.0 - 85.0				shale: red; hard; brittle
85.0 - 85.1	85.0 - 95.0		10.0	sandstone: fine: gray; w/dark gray clay rip up clasts
85.1 - 86.7				shale to clay: red; soft; plastic
86.7 - 88.5				shale: red & gray; mottled; hard
88.5 - 94.0				shale: gray; hard; occasional thin silty layers

*Auger Refusal at 40.0'

TETRA TECH RICHARDSON
WELL DESIGNATION MW-1 (LLMW1)

SHEET 3 OF 3

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOVERY (feet)	CLASSIFICATION OF MATERIAL
94.0 - 97.8	95.0 - 105.0		9.8	shale to siltstone; gray; hard
47.8 - 98.9				siltstone; gray; hard; fractured
48.9 - 102.2				siltstone to shale; gray; hard
102.2 - 106.1	105.0 - 115.0		9.8	sandstone; fine; alternating w/
				siltstone; wavy laminated
106.1 - 109.9				shale to siltstone; gray; hard
109.9 - 112.0				coal; black; bituminous?
112.0 - 113.6				silty shale; gray; hard
113.6 - 115.2				shaly coal; black and gray
115.2 - 124.9	115.0 - 125.0		9.9	shale; gray; hard
124.9 - 130.5	125.0 - 130.0		5.0	silty shale; dark gray; hard
130.5 - 133.0	130.0 - 140.0		9.7	sandstone; fine; greenish gray;
				hard
133.0 - 137.0				shale; red and gray, mottled;
				slightly weathered
137.0 - 138.8				shale; red; more highly weathered
138.8 - 141.3				shale to siltstone; gray; hard
141.3 - 142.3	140.0 - 150.0		9.8	shale; red
142.3 - 143.6				shale; gray
143.6 - 144.3				shale; red
144.3 - 149.4				shale; red
149.4 - 150.0				sandstone; gray; fine to medium
	150			END OF BORING

TETRA TECH RICHARDSON
WELL DRILLING LOG

PERMIT NO.
SHEET: 1 OF: 1

PROJECT: DUPONT WASHINGTON WORKS - LOCAL
PROJECT NO: 3851

WELL DESIGNATION: MW-2 (LLMW2)
DATE(S) DRILLED: 9/13/89

DRILLING CONTRACTOR: Triad Engineering Consultants
DRILLING METHOD: Hollow-Stem Auger

BORING DIAMETER: 10" SAMPLING METHOD: Split Spoon
SAMPLING INTERVAL: Standard Penetration

LOGGED BY: C. A. Burns
TOTAL DEPTH: 23'

SCREEN SIZE AND MATERIAL: 4" PVC 0.010" slot screen schedule 40
SCREENED INTERVAL: 23-5'

CASING SIZE AND MATERIAL: 4" PVC
CASED INTERVAL: 5-0'

GRAVEL PACK SIZE: #2 Morie Sand
PACKED INTERVAL: 23-3'

GROUT TYPE: Cement
GROUTED INTERVAL: 25-0'

GROUTING METHOD: Gravity
BENTONITE SEAL: 3-2.5'

DEVELOPMENT METHOD: Mechanical surging/pumping Surged 25 min. Pumped 62 gals.
ESTIMATED YIELD: ≤1 gpm

STATIC WATER DEPTH: 4.53' DATE: 10/02/89 REFERENCE: Top of PVC Casing

REMARKS: OVERBURDEN WELL

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOVERY (inches)	CLASSIFICATION OF MATERIAL
0 - 4.5	0.0 - 2.0	2-2-3-4-	2	sandy clay: mottled brownish red & yellow; trace fine gravel
	2.5 - 4.5	5-6-6-8	10	sames as above; wet on spoon
4.5 - 20.0	5.0 - 7.0	4-7-12-17	19	clay: brownish red; some silt
	7.5 - 9.5	4-7-9-10	24	clay: brownish red & yellow; mottled; trace silt
	10.0 - 12.0	3-6-9-7	24	clay: brown to reddish brown; trace silt
	15.0 - 17.0	2-2-3-4	24	clay: gray (also brown); moist
20.0 -	20.0 - 22.0	1-5-6-9	8	clay to weathered shale: gray and red: moist
	23.1	Auger Refusal		END OF BORING

TETRA TECH RICHARDSON WELL DRILLING LOG		PERMIT NO. SHEET: 1 OF: 1
PROJECT: DUPONT WASHINGTON WORKS - LOCAL		PROJECT NO: 3851
WELL DESIGNATION: MW-3 (LLMW3)		DATE(S) DRILLED: 9/14/89
DRILLING CONTRACTOR: Triad Engineering Consultants		DRILLING METHOD: Hollow-Stem Auger
BORING DIAMETER: 10"	SAMPLING METHOD: Split Spoon	SAMPLING INTERVAL: Standard Penetration
LOGGED BY: C. A. Burns		TOTAL DEPTH: 21'
SCREEN SIZE AND MATERIAL:	4" 0.010 slot schedule 40 PVC	SCREENED INTERVAL: 20-5'
CASING SIZE AND MATERIAL:	4" PVC	CASED INTERVAL: 5-0'
GRAVEL PACK SIZE:	#2 Morie Sand	PACKED INTERVAL: 20-3'
GROUT TYPE:	Cement	GROUTED INTERVAL: 2.5-0'
GROUTING METHOD:	Gravity	BENTONITE SEAL: 3-2.5
DEVELOPMENT METHOD: Mechanical surging/pumping	Surged for 25 min. Pumped 50 gals.	ESTIMATED YIELD: 0.5 gpm
STATIC WATER DEPTH: 5.6'	DATE: 10/02/89	REFERENCE: Top of PVC Casing
REMARKS:		
		OVERBURDEN WELL

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOVERY (inches)	CLASSIFICATION OF MATERIAL
0.0 - 4.5	0.0 - 2.0	9-10-6-6	6	clay: reddish brown; trace fine sand; slightly moist
	2.5 - 4.5	5-8-12-18	10	clay: reddish brown; pods of yellowish fine sand; hard
4.5 - 8.5	5.0 - 7.0	6-9-12-16	15	shale: reddish brown to gray; highly weathered; almost dry
8.5 - 15.0	7.5 - 9.5	16-22-50/6"	10	shale: gray; highly weathered dry; then @8.5': shale: red; weathered
	10.0 - 12.0	22-40-50/3"	10	shale: red; highly weathered;wet
15.0 -	15.0 - 17.0	50/2"	2	shale; gray; weathered; dry
	20.0 - 22.0	50/2"	2	shale: gray; competent rock
	21.0	Auger Refusal		END OF BORING

TETRA TECH RICHARDSON WELL DRILLING LOG	PERMIT NO. SHEET: 1 OF: 3
PROJECT: DUPONT WASHINGTON WORKS - LOCAL	PROJECT NO: 3851
WELL DESIGNATION: MW-4 (LLMW4)	DATE(S) DRILLED: 9/29/89
DRILLING CONTRACTOR: Triad Engineering Consultants*	DRILLING METHOD: Hollow-Stem/ Air Rotary
BORING DIAMETER: 10" SAMPLING METHOD: Split Spoon/Core	SAMPLING INTERVAL: Standard Penetration & Continuous Coring
LOGGED BY: C. A. Burns	TOTAL DEPTH: 152.5
SCREEN SIZE AND MATERIAL: 4" PVC 0.020" slot schedule 80	SCREENED INTERVAL: 147.5-127.5'
CASING SIZE AND MATERIAL: 4" PVC	CASED INTERVAL: 127.5-0'
GRAVEL PACK SIZE: #2 Morie Sand	PACKED INTERVAL: 152.5-125'
GROUT TYPE: Cement	GROUTED INTERVAL: 122-0'
GROUTING METHOD: Pressure	BENTONITE SEAL: 125-122'
DEVELOPMENT METHOD: Not Developed	ESTIMATED YIELD: Unknown
STATIC WATER DEPTH: 130.0' DATE: 9/28/89	REFERENCE: Surface Grade

REMARKS: *Original test boring completed by Triad. Boring that well was installed in was completed by B & C Drilling. Five feet of blank pipe below screen from 152.5'-147.5'

BEDROCK WELL

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOVERY (inches)	CLASSIFICATION OF MATERIAL
0.0 - 7.5	0.0- 2.0	2-3-10-14	8	sand; brown; loose; dry; fine
	2.5- 4.5	50/5"	2	sandstone; brown; weathered; dry; micaceous; fine
	5.0- 7.0	50/4"	3	same as above
7.5 - 9.0	7.5- 9.5	21-23-27-30	20	silt; gray to brown; reddish at bottom; dry
9.0 - 30.0	10.0- 12.0	15-23- ?-50	18	shale; red; highly weathered; dry
	15.0- 17.0	24-40-50/1"	6	same as above
	20.0- 22.0	37-50/4"	7	same as above
	25.0- 27.0	50/4"	4	same as above
	30.0- 32.0	50/1"	0	shale; gray-appearance from cuttings

TETRA TECH RICHARDSON
WELL DESIGNATION MW-4 (LLMW4)

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOV-ERY (inches)	CLASSIFICATION OF MATERIAL
	31.6	Auger Refusal		
	BEGIN ROCK CORING			
(feet)	(feet)		(feet)	
31.6 - 32.6	31.6- 32.6		1.0	sandstone: fine: gray
32.6 - 35.2	32.6- 35.0		1.6	shale: gray: trace fine sand
35.2 - 35.6	35.0- 35.6		0.6	same as above for 2", then shale: red
35.6 - 39.0	35.6- 43.1		7.5	shale: gray
39.0 - 40.6				shale: red
40.6 - 42.4				shale: gray
42.4 - 43.1				sandstone: fine: gray
43.1 - 44.0	43.1- 47.0		3.1	siltstone: gray: some fine sand
44.0 - 44.35				shale: gray
44.35- 44.8				shale: red
44.8 - 55.5	47.0- 55.5		3.2	clay: mottled red, gray, and brown: very soft: moist
55.5 - 56.6	55.5- 65.6		9.3	shale: red: highly weathered
56.6 - 59.0				siltstone: gray: trace fine sand
59.0 - 61.75				shale: red and gray
61.75- 74.5	65.6- 75.5		9.9	shale: gray
74.5 - 75.0				sandstone: fine: gray
75.0 - 82.0	75.5- 85.5		9.9	shale: gray
82.0 - 84.85				shale: red: weathered: moist
84.85- 85.7	85.5- 88.6		3.1	siltstone: gray: trace fine sand
85.7 - 86.5				shale: gray
86.5 - 87.0				shale: red: weathered
87.0 - 100.0	88.6- 90.5		1.8	same as above
	90.5-100.5		10.0	same as above
100.0 - 105.8	100.5-105.5		4.6	shale: mottled: red, gray & yellow: highly weathered: moist
105.8 - 111.2	105.5-113.5		8.0	shale: gray: hard
111.2 - 111.4				shale: red: weathered
111.4 - 112.3				shale: gray: hard

TETRA TECH RICHARDSON
WELL DESIGNATION MW-4 (LLMW4)

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOV-ERY (feet)	CLASSIFICATION OF MATERIAL
112.3 - 117.1	113.5-115.5		2.0	shale: red: highly weathered
	115.5-125.5		10.25	
117.1 - 119.8				shale: gray: hard
119.8 - 136.4	125.5-135.5		10.0	sandstone: gray: fine to medium: trace silt:
136.4 - 136.5	135.5-140.5		4.4	shale: gray
136.5 - 150	140.5-145.5		4.3	shale: red: some gray mottling: weathered
	145.5-152.5		4.8	same as above
	152.5			END OF BORING

TETRA TECH RICHARDSON WELL DRILLING LOG		PERMIT NO. SHEET: 1 OF: 1
PROJECT: DUPONT WASHINGTON WORKS - LOCAL		PROJECT NO: 3851
WELL DESIGNATION: MW-5 (LLMW5)		DATE(S) DRILLED: 9/15/89
DRILLING CONTRACTOR: Triad Engineering Consultants		DRILLING METHOD: Hollow-Stem Auger
BORING DIAMETER: 10"	SAMPLING METHOD: Split Spoon	SAMPLING INTERVAL: Standard Penetration
LOGGED BY: C. A. Burns		TOTAL DEPTH: 36'
SCREEN SIZE AND MATERIAL: 4" 0.010 slot schedule 40 PVC		SCREENED INTERVAL: 36-16'
CASING SIZE AND MATERIAL: 4" PVC		CASED INTERVAL: 16-0'
GRAVEL PACK SIZE: #2 Morie Sand		PACKED INTERVAL: 36-9.5'*
GROUT TYPE: Cement		GROUTED INTERVAL: 7.5-0'
GROUTING METHOD: Gravity		BENTONITE SEAL: 9.5-7.5'
DEVELOPMENT METHOD: Mechanical surging/pumping	Surged for 25 min. Pumped 20 gals.	ESTIMATED YIELD: <1 gpm
STATIC WATER DEPTH: 20.0'	DATE: 9/22/89	REFERENCE: Surface Grade

REMARKS: *Packed interval accidentally extended higher than intended.

OVERBURDEN WELL

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOVERY (inches)	CLASSIFICATION OF MATERIAL
0.0 - 7.0	0.0 - 2.0	2-2-2-4	6	sandy clay: brownish red clay w/fine yellow sand: moist
	2.5 - 4.5	4-4-6-8	8	same as above
	5.0 - 7.0	4-6-8-10	8	clay:red:trace fine sand:moist
7.0 - 25.0	7.5 - 9.5	5-5-9-12	8	clay: red: stiff
	10.0 - 12.0	9-10-16-20	12	clay: red: stiff: for 2" then sandy clay: red clay w/fine yellow sand
	15.0 - 17.0	9-14-16-50/5"	14	sandy clay: red clay: fine yellow sand
	20.0 - 22.0	9-14-18-20	0	no recovery
25.0 -	25.0 - 27.0	45-50/4"	4	shale: highly weathered: gray and red: mottled
	30.0 - 32.0	50/5"	3	shale: dark gray: weathered slightly
	35.0 - 37.0	50/1"	1	shale: dark gray hard
	35	Auger Refusal		END OF BORING

TETRA TECH RICHARDSON
WELL DRILLING LOG

PERMIT NO.
SHEET: 1 OF: 1

PROJECT: DUPONT WASHINGTON WORKS - LOCAL	PROJECT NO: 3851
WELL DESIGNATION: MW-6 (LLMW6)	DATE(S) DRILLED: 9/28/89
DRILLING CONTRACTOR: B & C Drilling	DRILLING METHOD: Air Rotary
BORING DIAMETER: 10" SAMPLING METHOD: Cuttings	SAMPLING INTERVAL: Continuous
LOGGED BY: C. A. Burns	TOTAL DEPTH: 90'
SCREEN SIZE AND MATERIAL: 4" 0.020 slot schedule 80 PVC	SCREENED INTERVAL: 90-70'
CASING SIZE AND MATERIAL: 4" PVC	CASED INTERVAL: 70-0'
GRAVEL PACK SIZE: #2 Morie Sand	PACKED INTERVAL: 90-67.5'
GROUT TYPE: Cement	GROUTED INTERVAL: 65-0'
GROUTING METHOD: Gravity	BENTONITE SEAL: 67.5-65.0'
DEVELOPMENT METHOD: Not Developed	ESTIMATED YIELD: Unknown
STATIC WATER DEPTH: 72.3' DATE: 9/29/89	REFERENCE: Grade

REMARKS: BEDROCK WELL

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOVERY (inches)	CLASSIFICATION OF MATERIAL
0 - 10				sandstone: gray
10 - 22.5				shale: blue gray
22.5 - 50				shale: red
	35'			cuttings appear damp - wait 15 minutes - no water
50 - 55				shale: blue gray
55 - 61				shale: red
61 - 79				sandstone: greenish gray: fine
	68'			cuttings appear damp
	76'			drilling very hard
79 - 90				shale: red
	90'			END OF BORING

TETRA TECH RICHARDSON WELL DRILLING LOG		PERMIT NO. SHEET: 1 OF: 1
PROJECT: DUPONT WASHINGTON WORKS - LOCAL		PROJECT NO: 3851
WELL DESIGNATION: MW-7 (LLMW7)		DATE(S) DRILLED: 9/27/89
DRILLING CONTRACTOR: Triad Engineering Consultants		DRILLING METHOD: Hollow-Stem Auger
BORING DIAMETER: 10"	SAMPLING METHOD: Split Spoon	SAMPLING INTERVAL: Standard Penetration
LOGGED BY: C. A. Burns		TOTAL DEPTH: 29'
SCREEN SIZE AND MATERIAL: 4" PVC 0.010" slot schedule 40		SCREENED INTERVAL: 29-9'
CASING SIZE AND MATERIAL: 4" PVC		CASED INTERVAL: 9-0'
GRAVEL PACK SIZE: #2 Morie Sand		PACKED INTERVAL: 29-7'
GROUT TYPE: Cement		GROUTED INTERVAL: 5-0'
GROUTING METHOD: Gravity		BENTONITE SEAL: 7-5'
DEVELOPMENT METHOD: Mechanical surging/pump	Surged 25 min. Pumped 7 gals.	ESTIMATED YIELD: 0.5 gpm
STATIC WATER DEPTH: 18.0'	DATE: 10/02/89	REFERENCE: Top of PVC Casing
REMARKS: OVERBURDEN WELL		

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOVERY (inches)	CLASSIFICATION OF MATERIAL
0.0 - 5.25	0.0 - 2.0	3-6-50/6"	12	clay: red-top 3"; then red clay & fine yellowish sandstone; mottled; dry
	2.5 - 4.5	15-22-31-31	14	same as above
5.25- 10.0	5.0 - 7.0	24-27-21-43	6	shale: red: highly weathered - for 3"; then sandstone: fine; yellowish; weathered; dry
	7.5 - 9.5	30-50/2"	6	siltstone: yellowish: dry
10.0 - 25.0	10.0 - 12.0	31-50/3"	9	shale: gray: reddish purple & yellow mottled: weathered almost to clay; hard; dry
	15.0 - 17.0	50/5"	5	shale: gray to brown: weathered dry
	20.0 - 22.0	50/2"	2	same as above
25.0 -	25.0 - 27.0	50/2"	2	shale: dark gray: weathered - powderlike; dry
	30.5'	Auger Refusal		END OF BORING

TETRA TECH RICHARDSON
WELL DRILLING LOG

PERMIT NO.
SHEET: 1 OF: 2

PROJECT: DUPONT WASHINGTON WORKS - LOCAL	PROJECT NO: 3851
WELL DESIGNATION: MW-8 (LLMW8)	DATE(S) DRILLED: 10/02/89
DRILLING CONTRACTOR: B & C Drilling	DRILLING METHOD: Air Rotary
BORING DIAMETER: 10" SAMPLING METHOD: Cuttings	SAMPLING INTERVAL: Continuous
LOGGED BY: C. A. Burns	TOTAL DEPTH: 160' Boring* 147' Well
SCREEN SIZE AND MATERIAL: 4" PvC 0.020-inch slot schedule 80	SCREENED INTERVAL: 142-122'
CASING SIZE AND MATERIAL: 4" PVC	CASED INTERVAL: 122-0'
GRAVEL PACK SIZE: #2 Morie Sand	PACKED INTERVAL: 160-120'
GROUT TYPE: Cement	GROUTED INTERVAL: 118-0'
GROUTING METHOD: Gravity	BENTONITE SEAL: 120-118'
DEVELOPMENT METHOD: Not Developed	ESTIMATED YIELD: Unknown
STATIC WATER DEPTH: 65.8' DATE: 10/10/89	REFERENCE: Grade

REMARKS: *Boring was overdrilled to account for some possible loss of hole prior to installation of well. Five foot blank pipe was installed below screen from 147'-142'. Well installed without direct supervision of TtR geologist. BEDROCK WELL

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY	CLASSIFICATION OF MATERIAL
0 - 4				topsoil: brown silt & clay
4 - 14				clay: red (or highly weathered shale)
14 - 32				sandstone: gray: fine
32 - 33				shale: red
33 - 37				sandstone: gray
37 - (48)				shale: red: some gray
(48) - 54				shale: deep red
54 - 59				sandstone: gray: fine
59 - 68.5				shale: gray

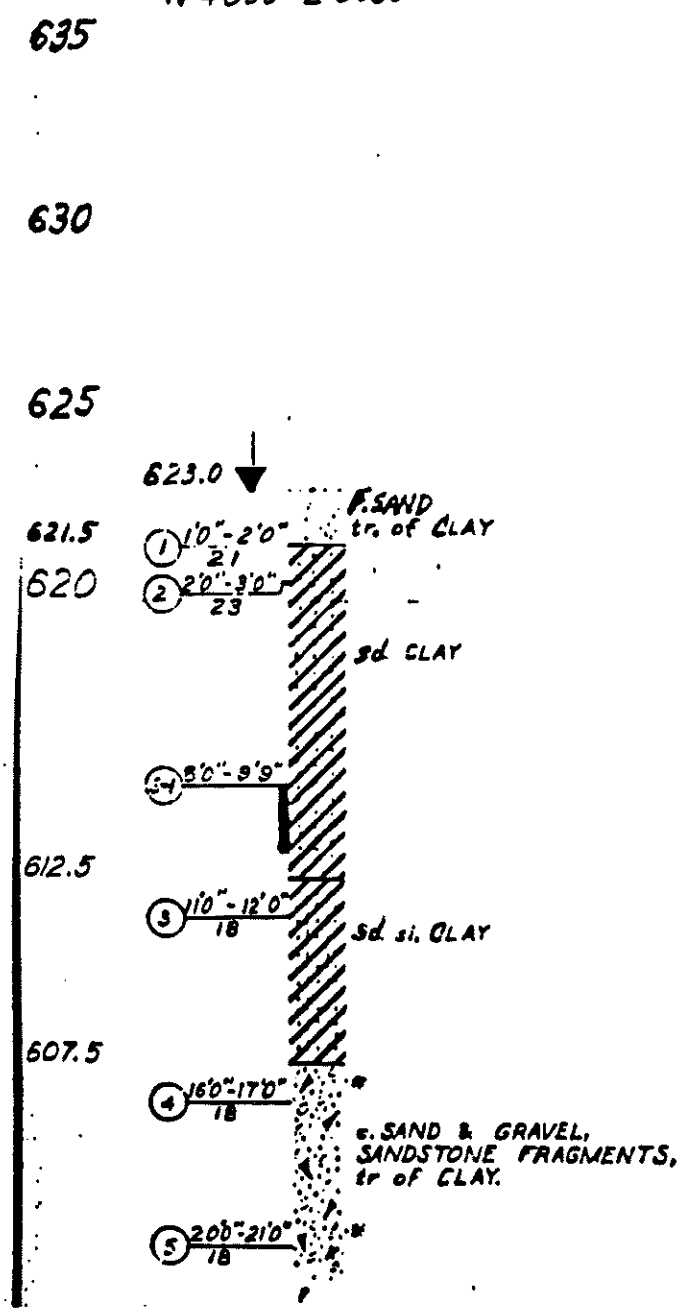
TETRA TECH RICHARDSON
WELL DESIGNATION MW-8 (LLMW8)

LITHOLOGIC INTERVAL (feet)	SAMPLE INTERVAL (feet)	SPOON BLOWS (per six inches)	RECOV-ERY (inches)	CLASSIFICATION OF MATERIAL
68.5 - 73				sandstone: gray
73 - 86				shale: red
86 - 94				shale: blue gray
94 - 97				shale: red
97 - 105				shale: blue gray
105 - 109				shale: blue gray
109 - 130				sandstone: gray: fine
130 - 148				shale: red
148 - 156				sandstone: gray
156 - 160				shale: blue gray
	160			END OF BORING
	130 - 140			Apparent water-bearing zone

ATTACHMENT B-2.

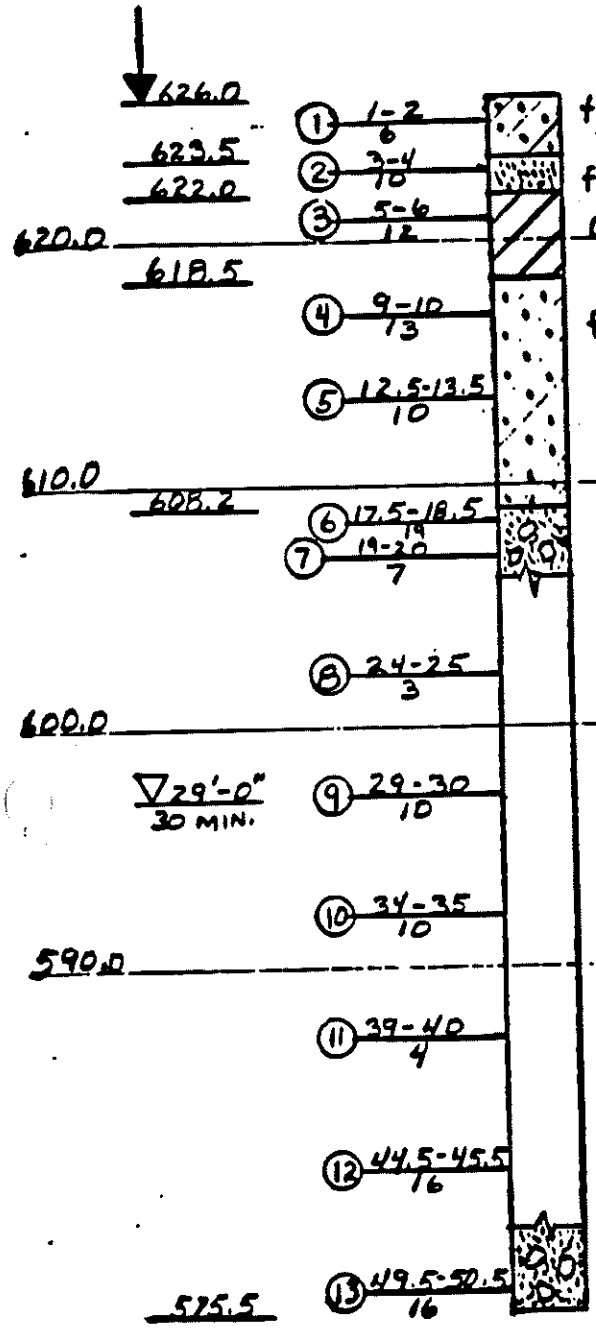
HISTORIC BOREHOLE, TEST WELL AND PRODUCTION WELL GEOLOGIC LOGS

B-1
N·4000 E·5650



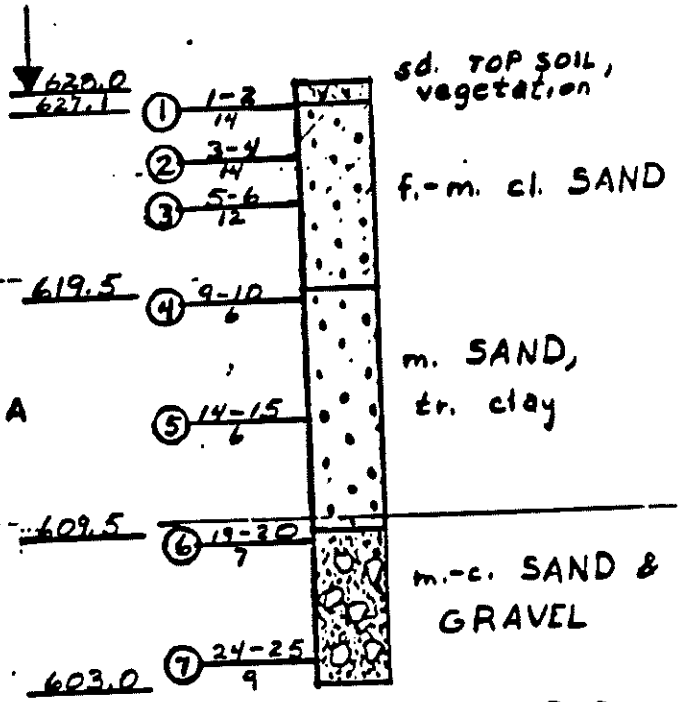
B-9

N 4050 E 6140



B-13

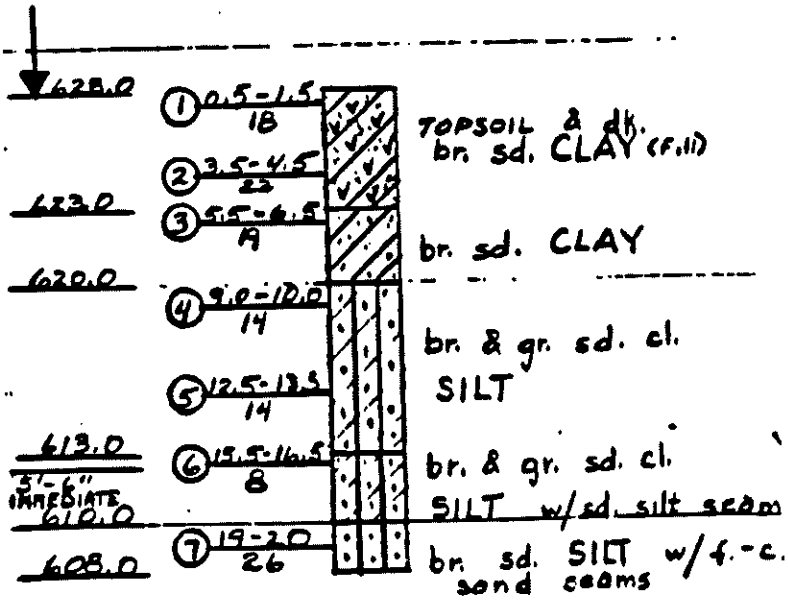
N 4250 E 5255

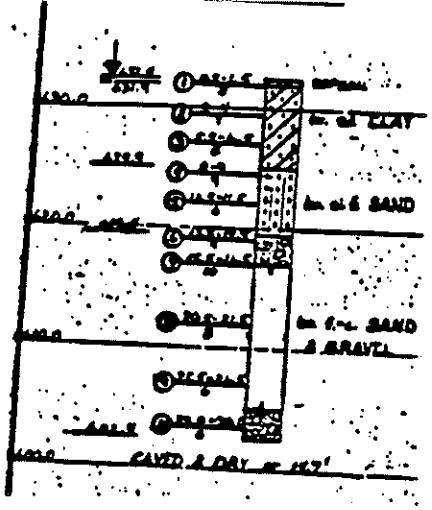


NO WATER ENCOUNTERED

B-26

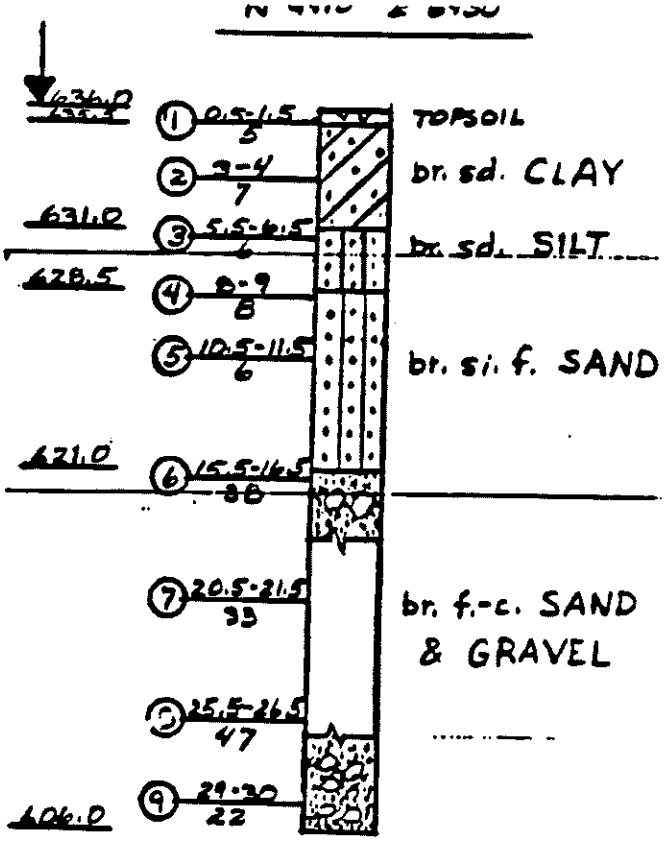
N 3650 E 5178

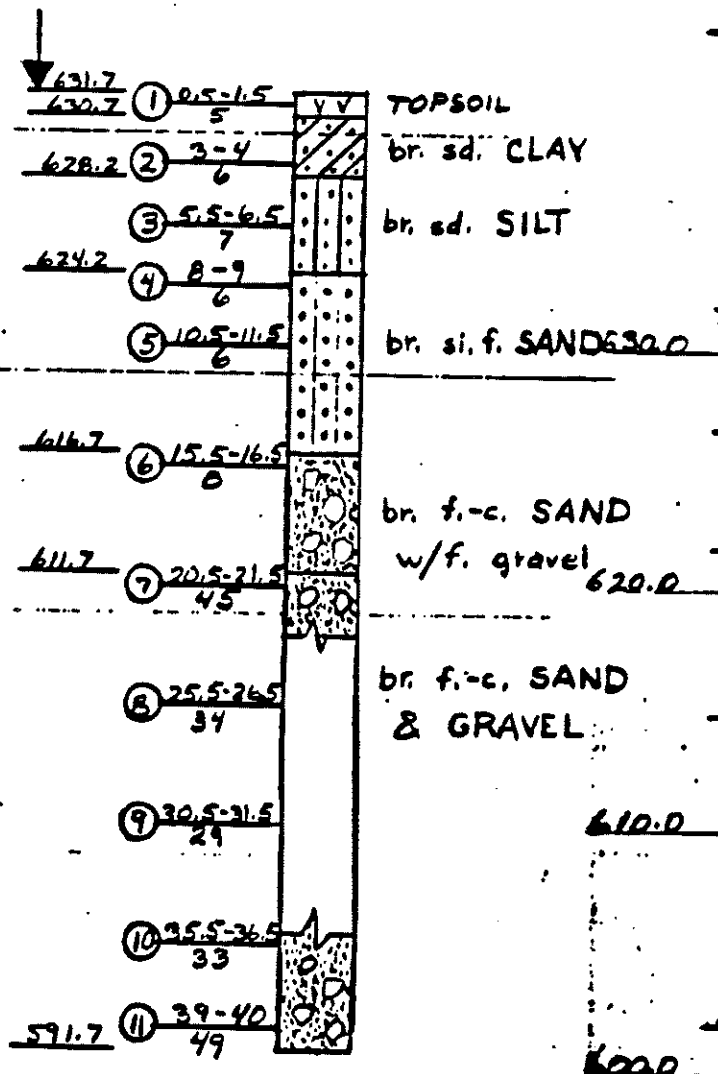




B-33

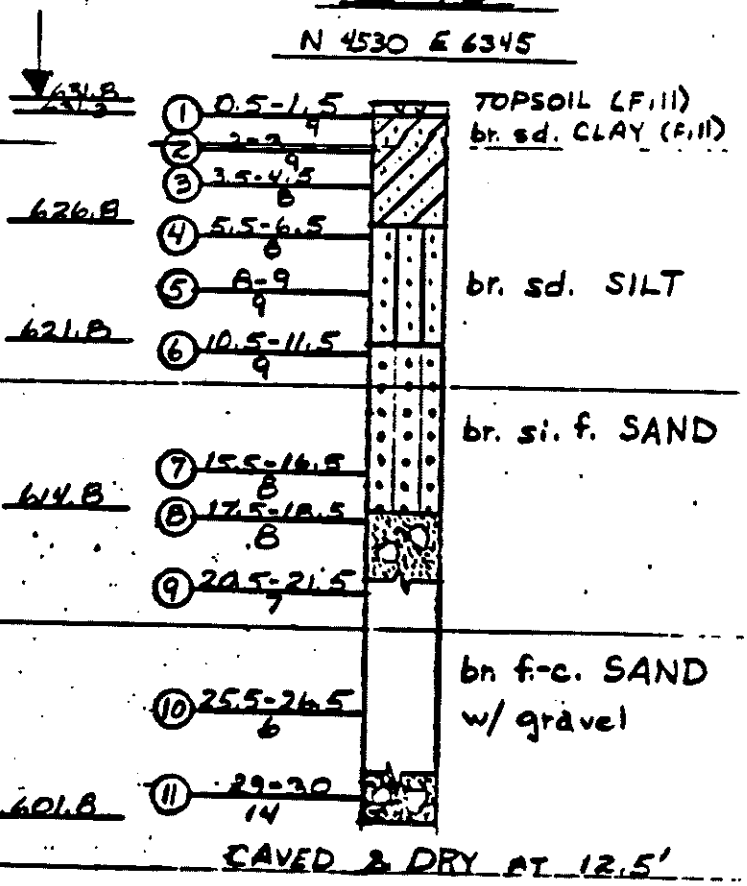
N 4600 E 6350





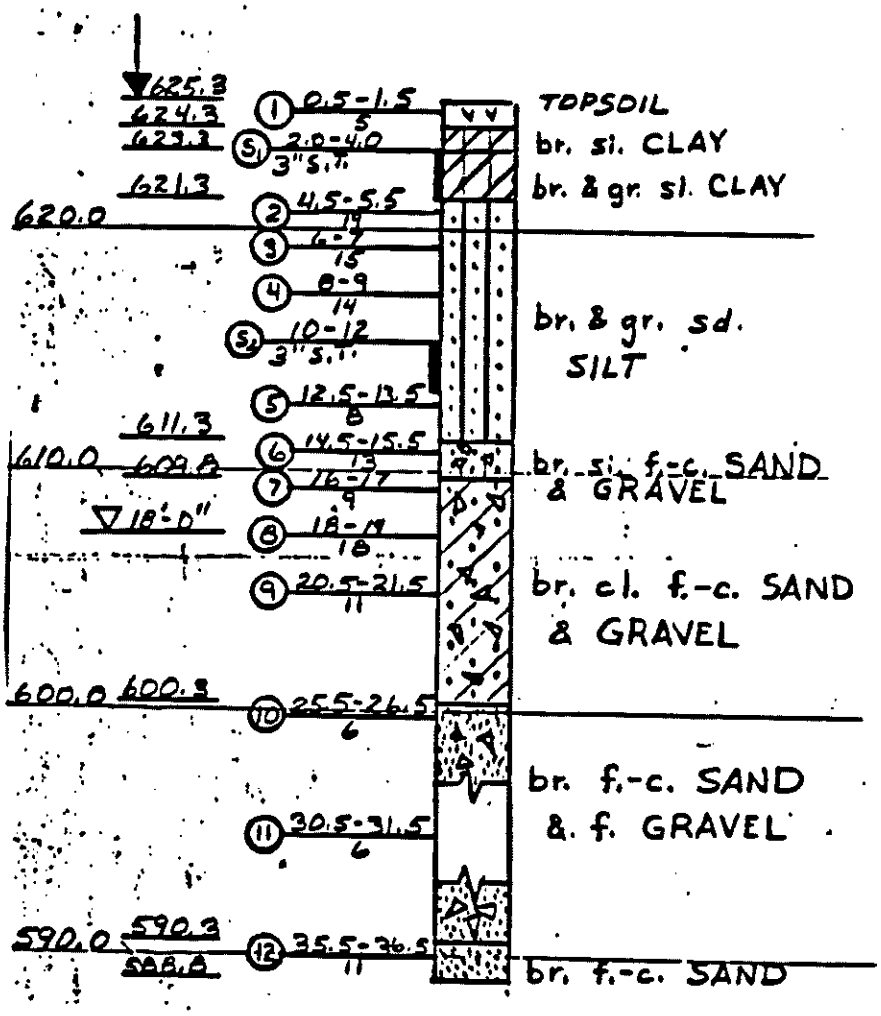
B-40

N 4530 E 6345



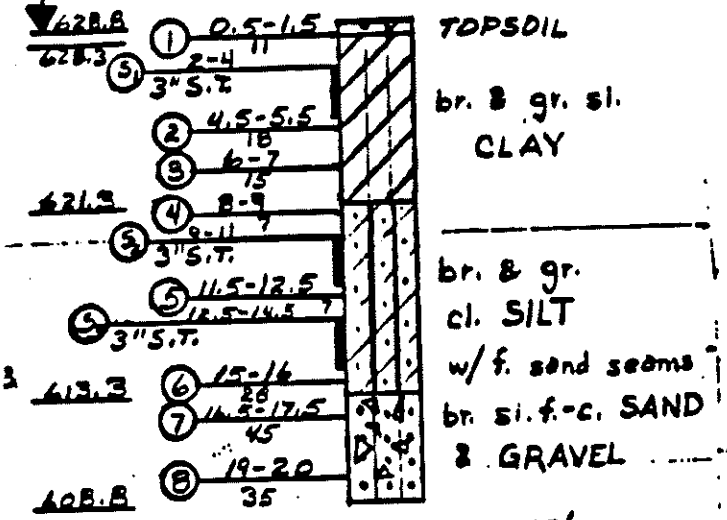
B-52

N 4055 E 7120



B-66

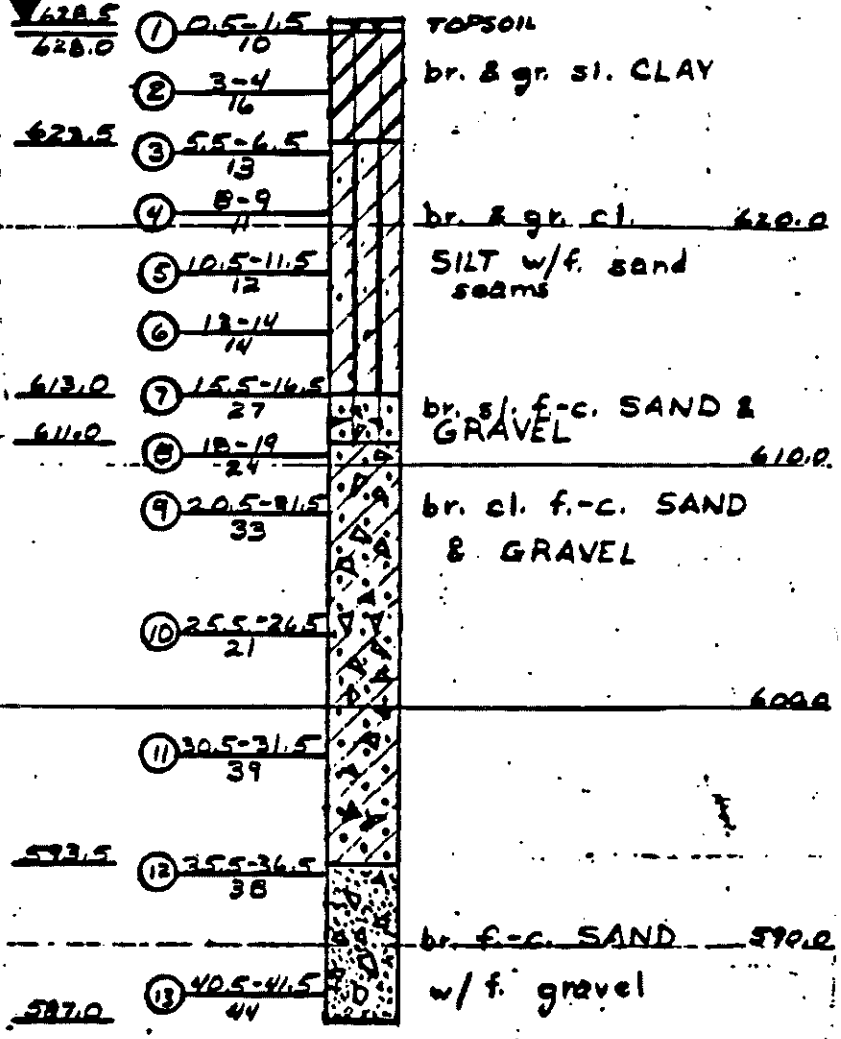
N 3930 E7980



CAVED & DRY AT 18'

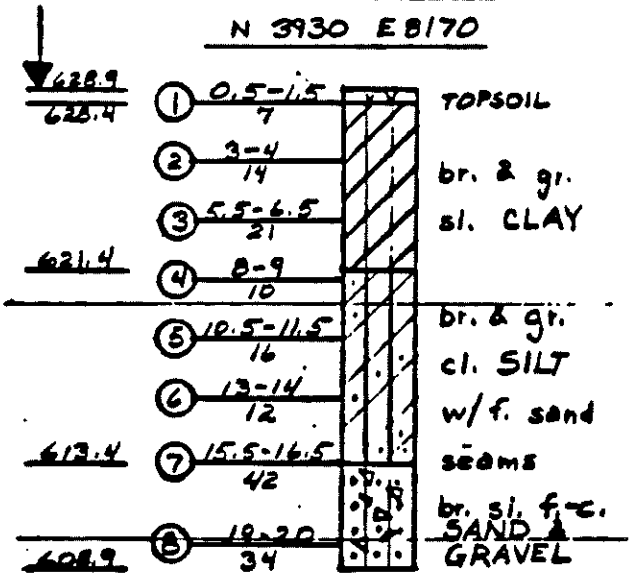
B-72

N 3930 E8360



B-69

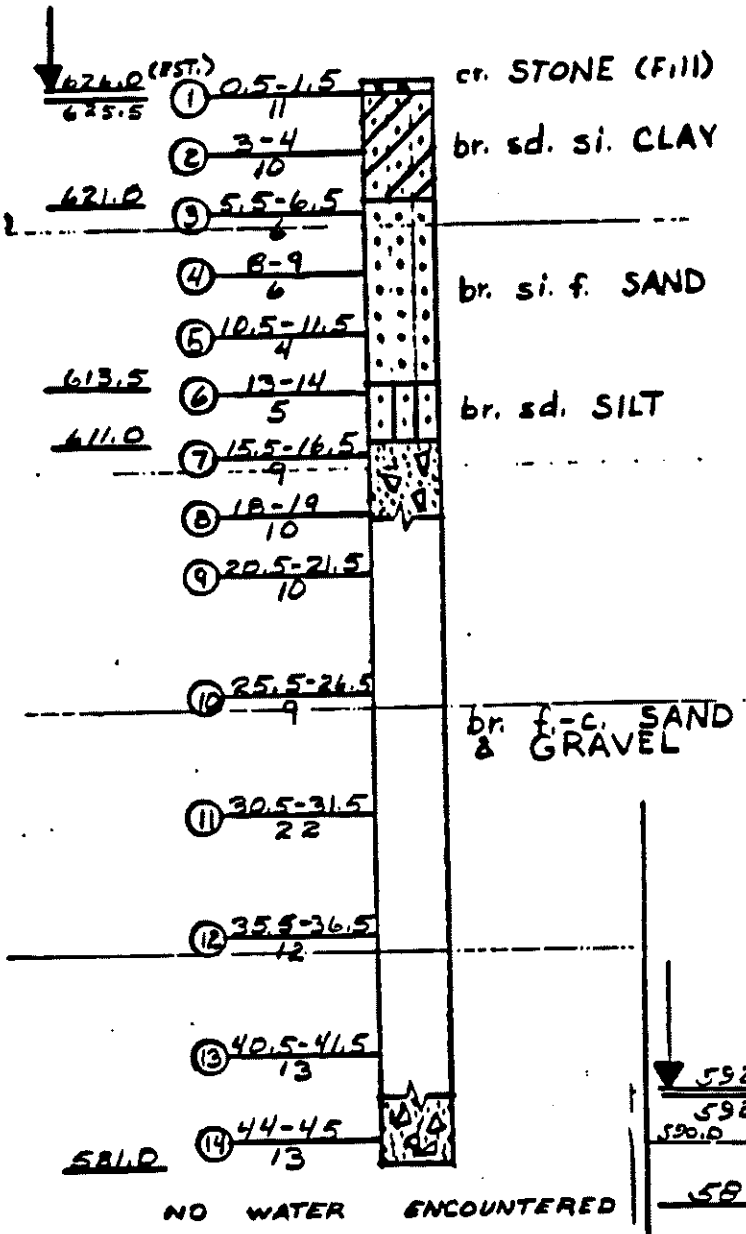
N 3930 E8170



CAVED & DRY AT 12.0'

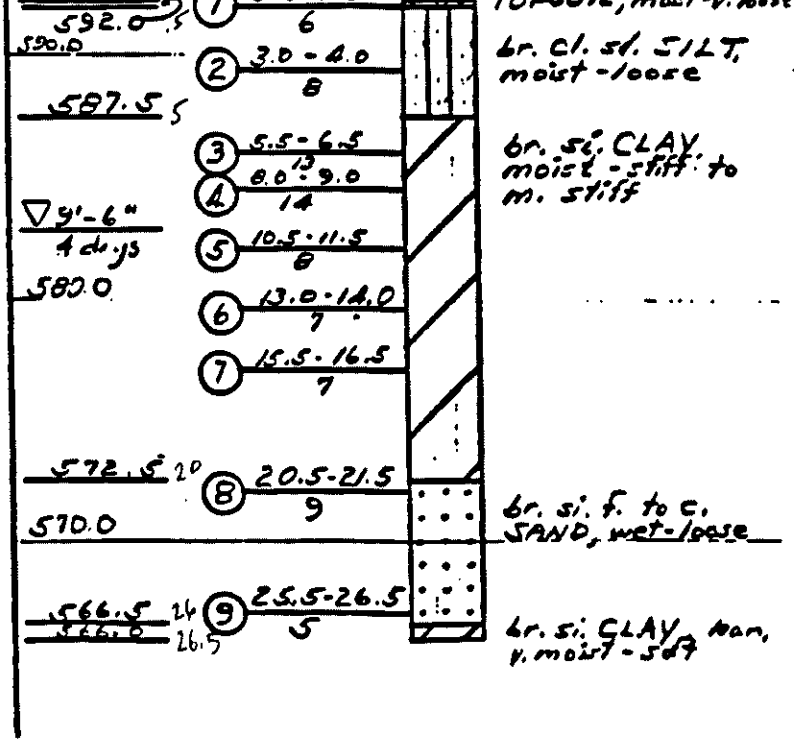
B-84

N 4020 E 3540

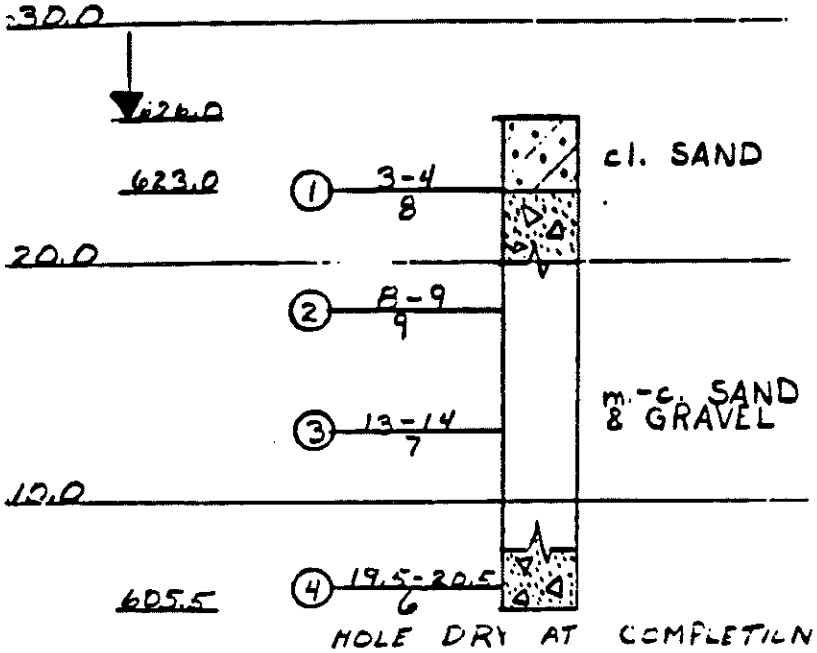


B-104

N 5140 E 5323

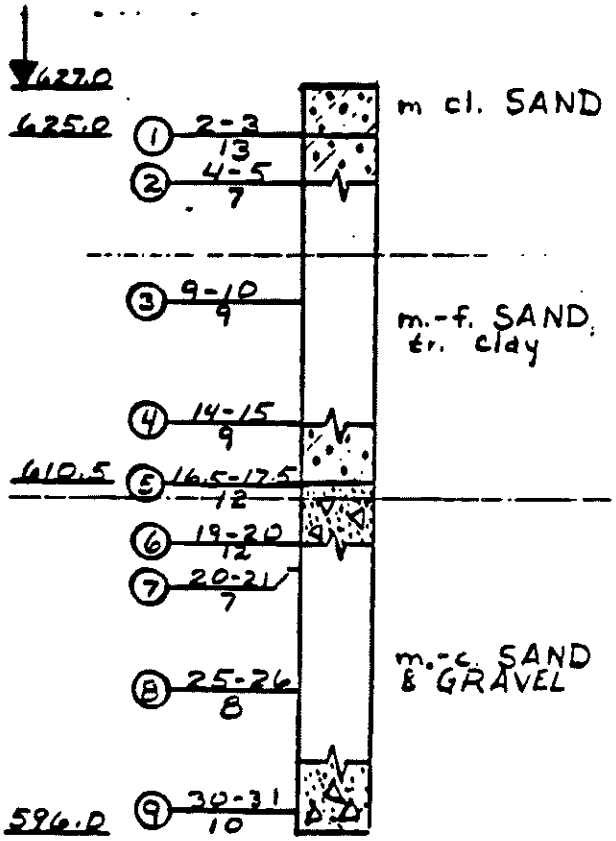


N 3980 E 4200



HOLE DRY AT COMPLETION

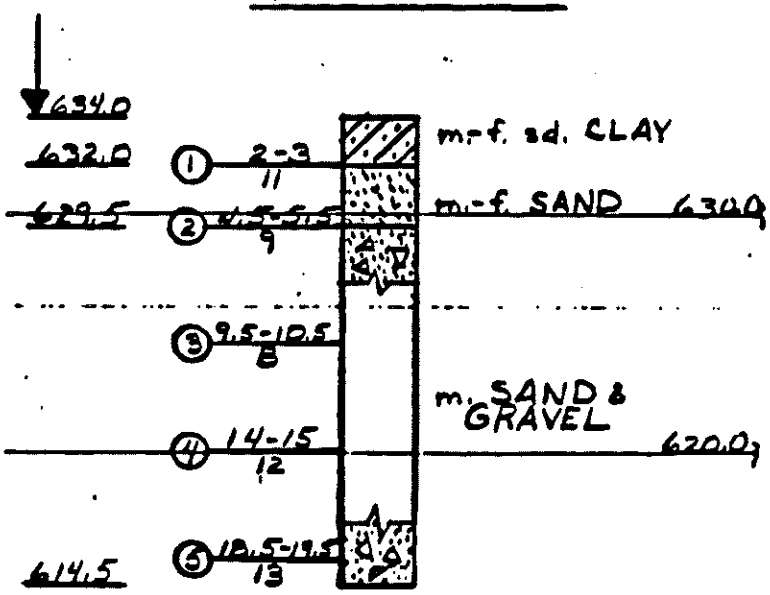
N 3980 E 4030



HOLE DRY AT COMPLETION

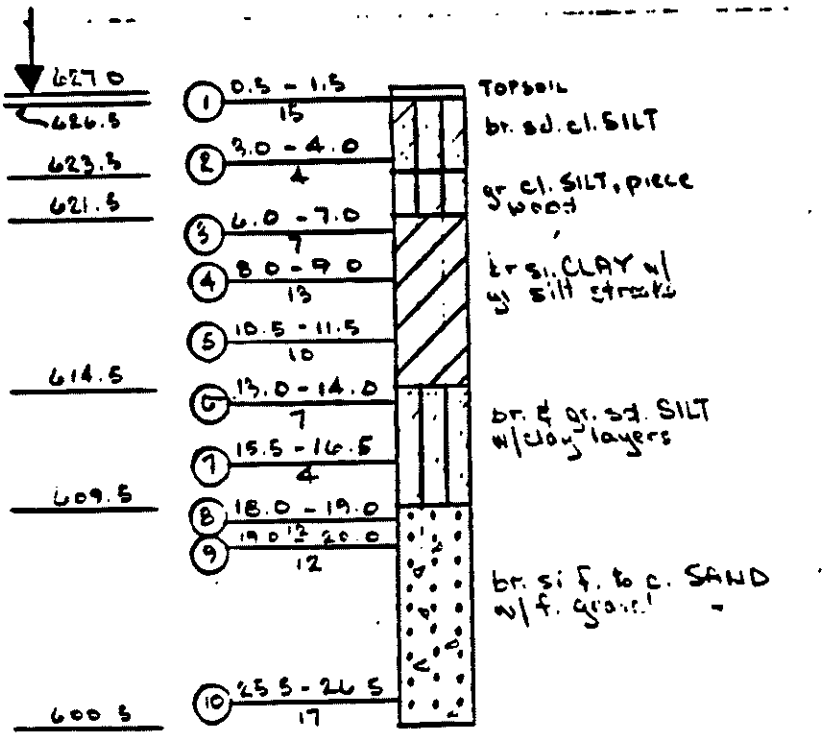
BD-9

N 4450 E 3350



BD-22

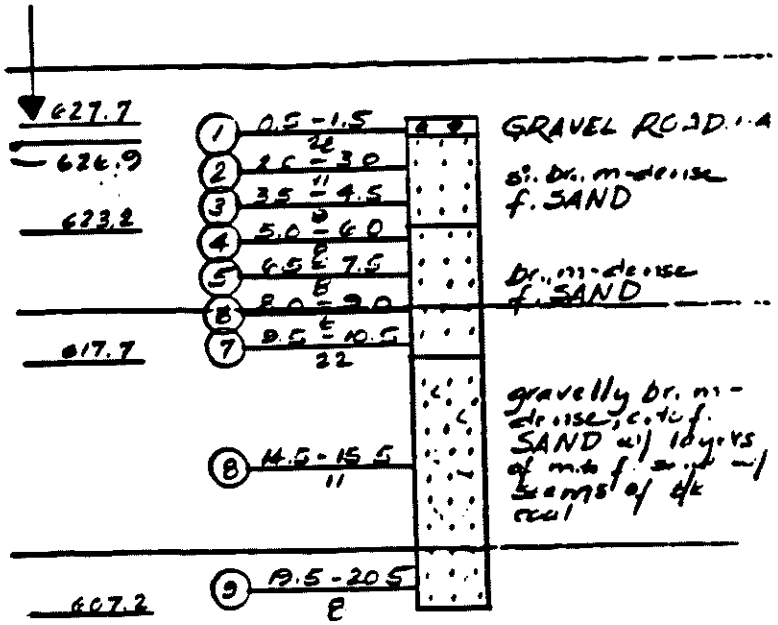
N 4112 E 6451



NO WATER ENCOUNTERED

BD-35

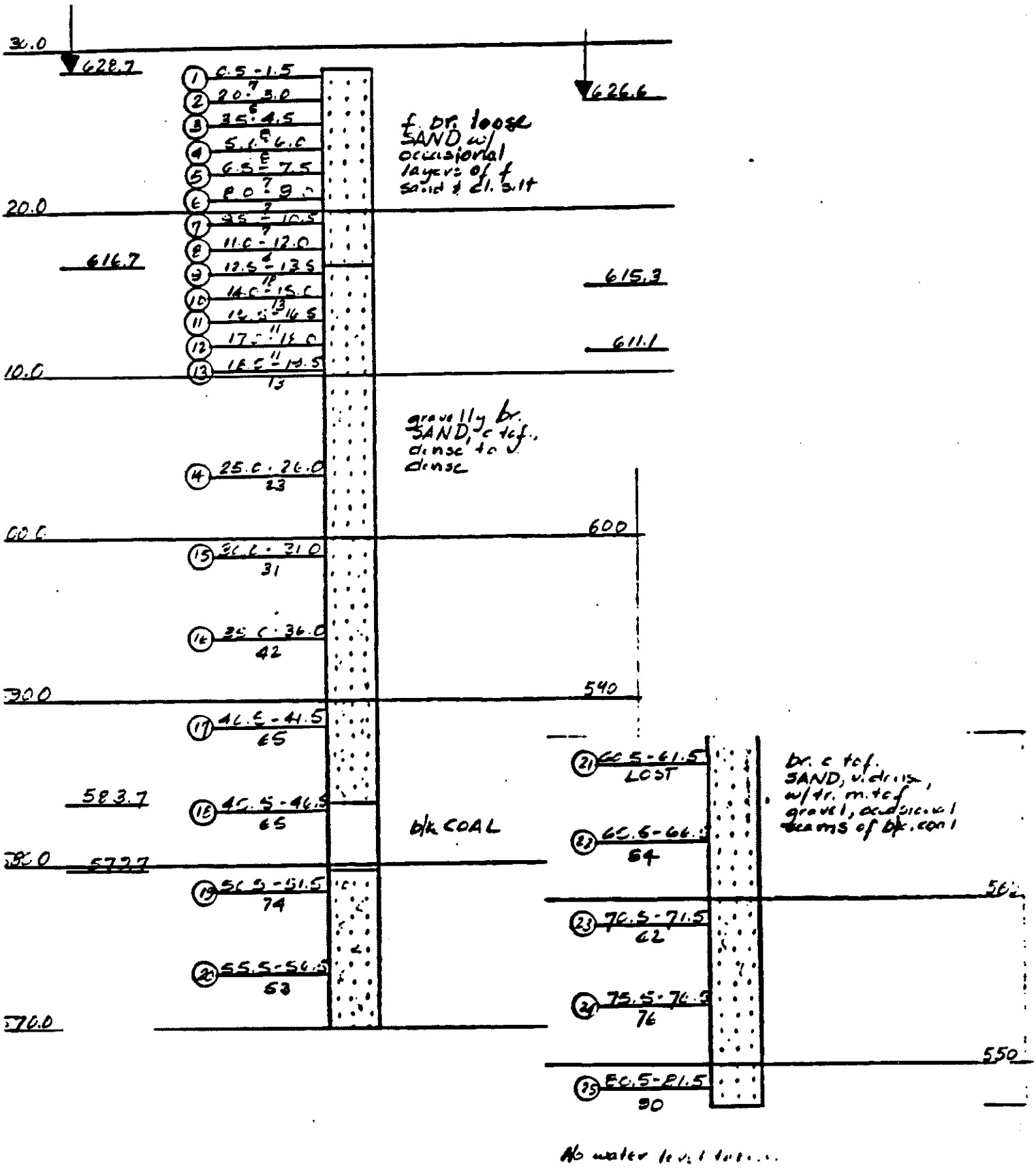
N4245 E3254



No water level taken

BD-30

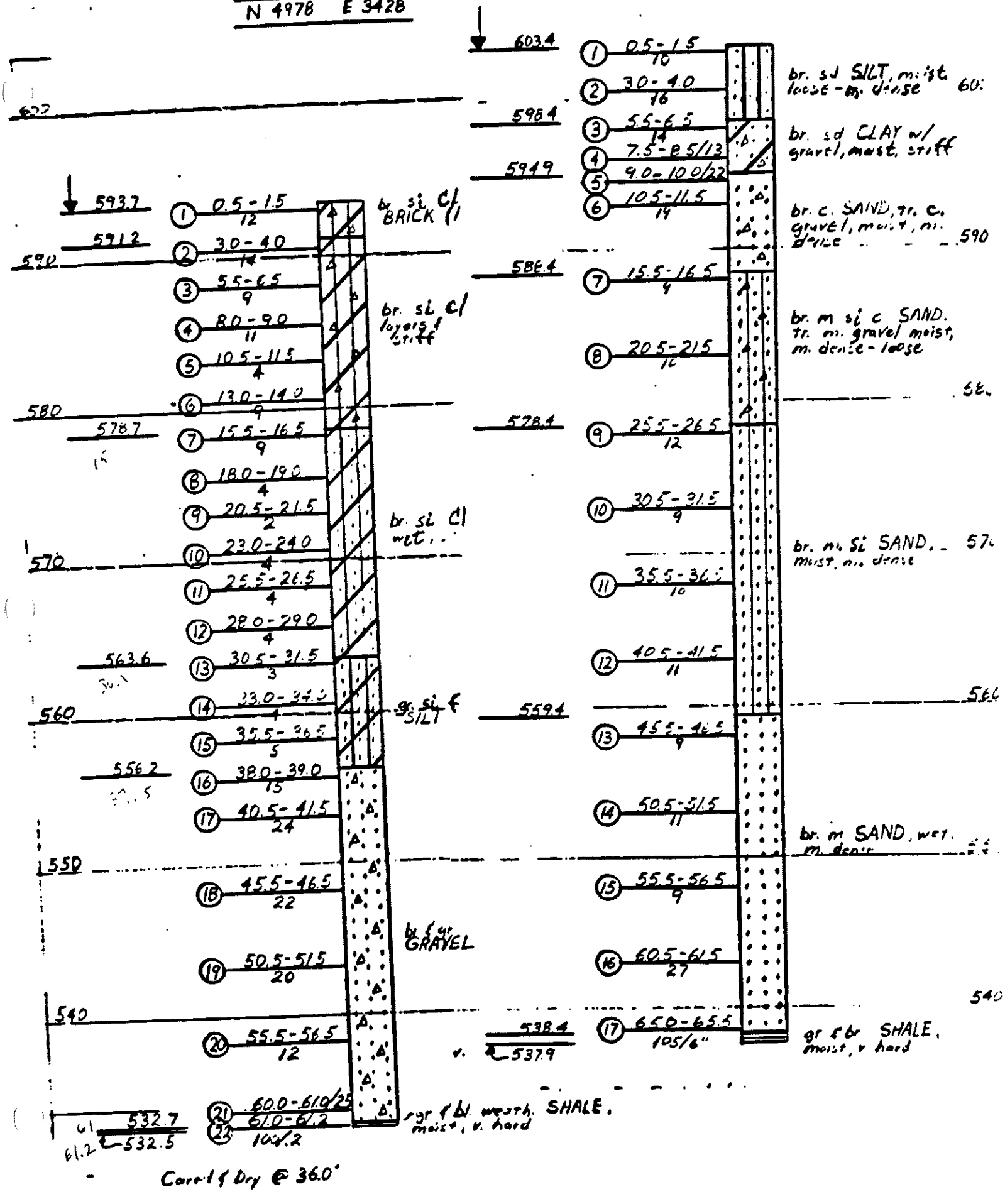
N 3967 E 8150



No water level ...

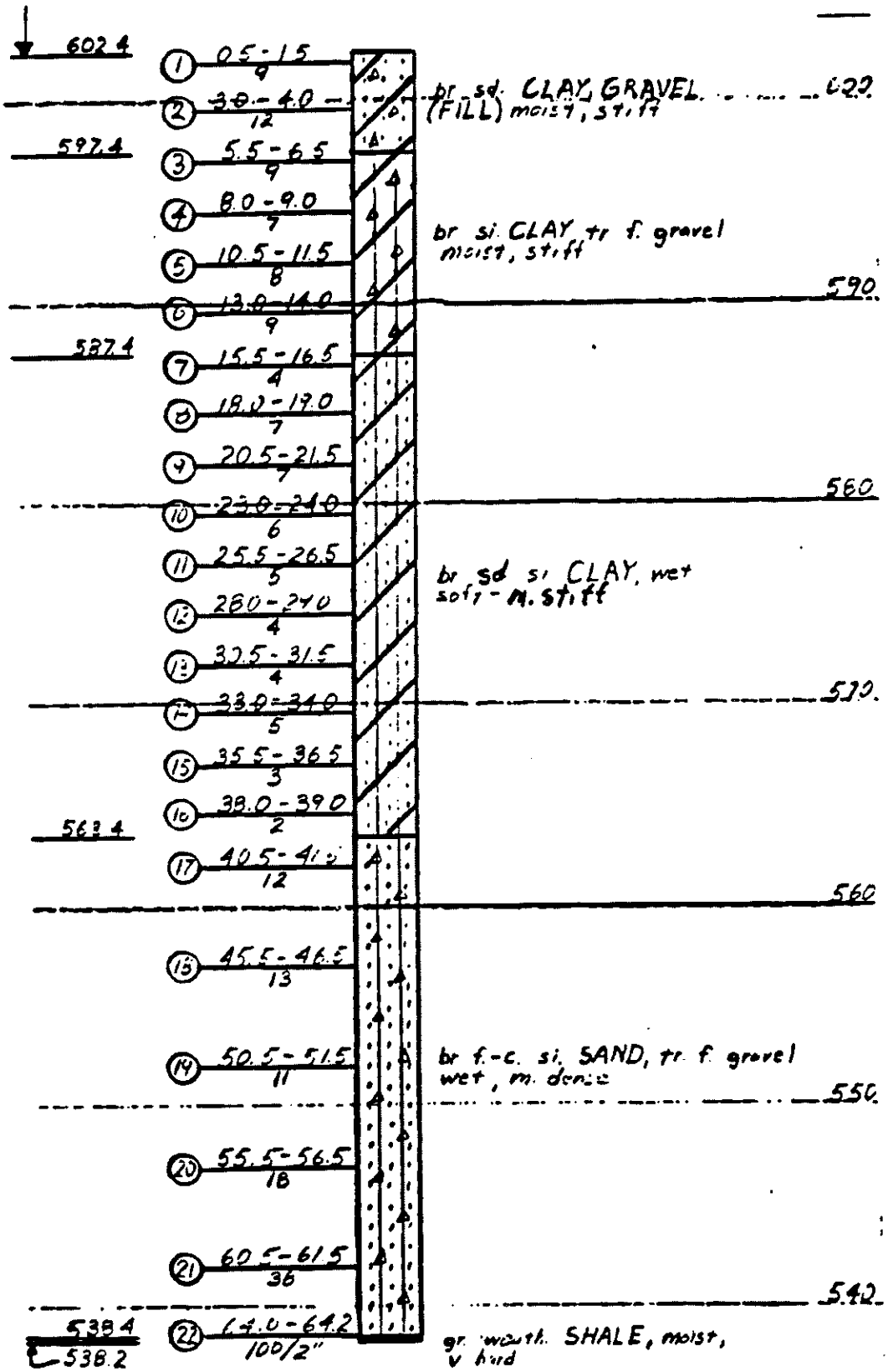
BD-41

N 4978 E 3428



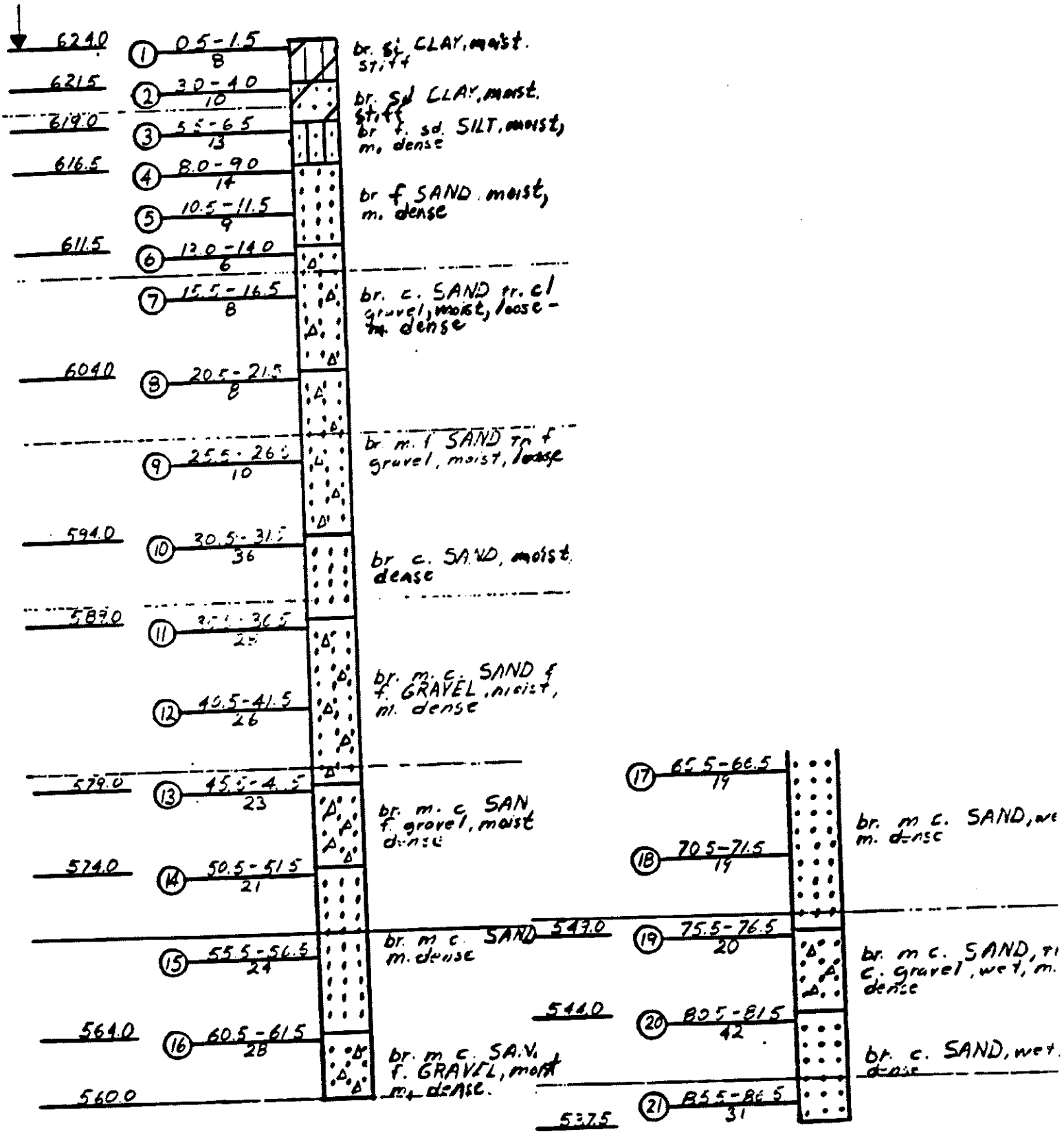
BD-44

N 4393 E 3428



BD-50

N 4618 E 3429



BR-5

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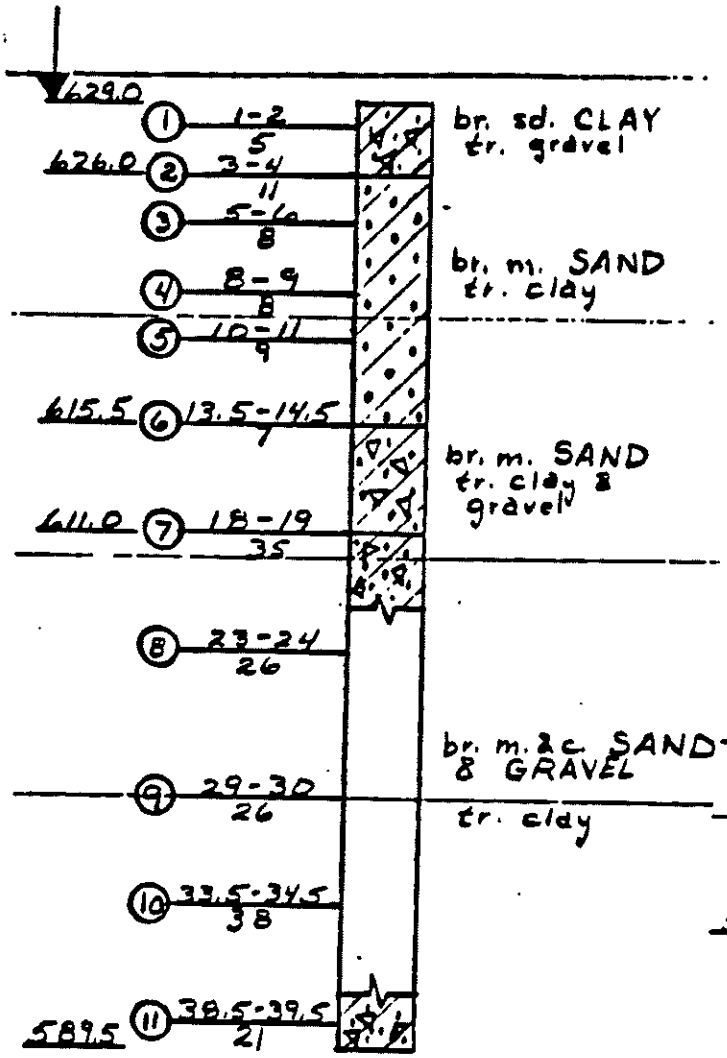
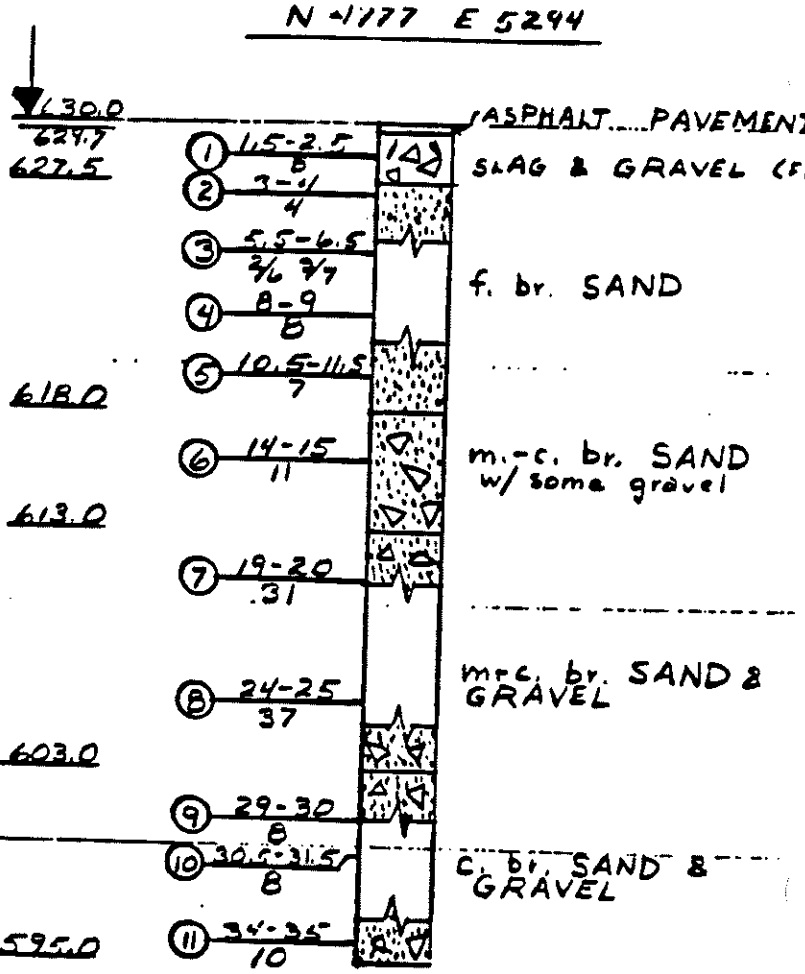


HOLE DRY AT COMPLETION

BR-9

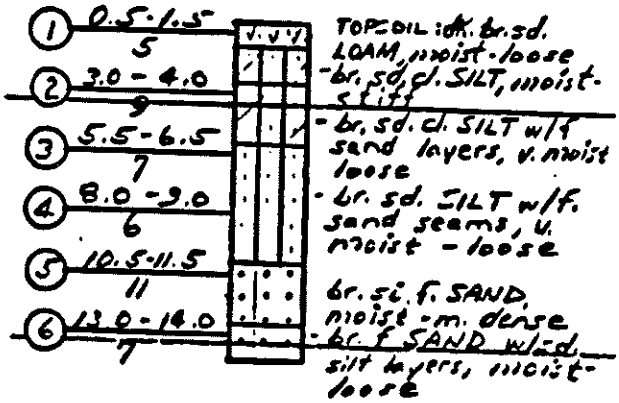
N 4777 E 5294



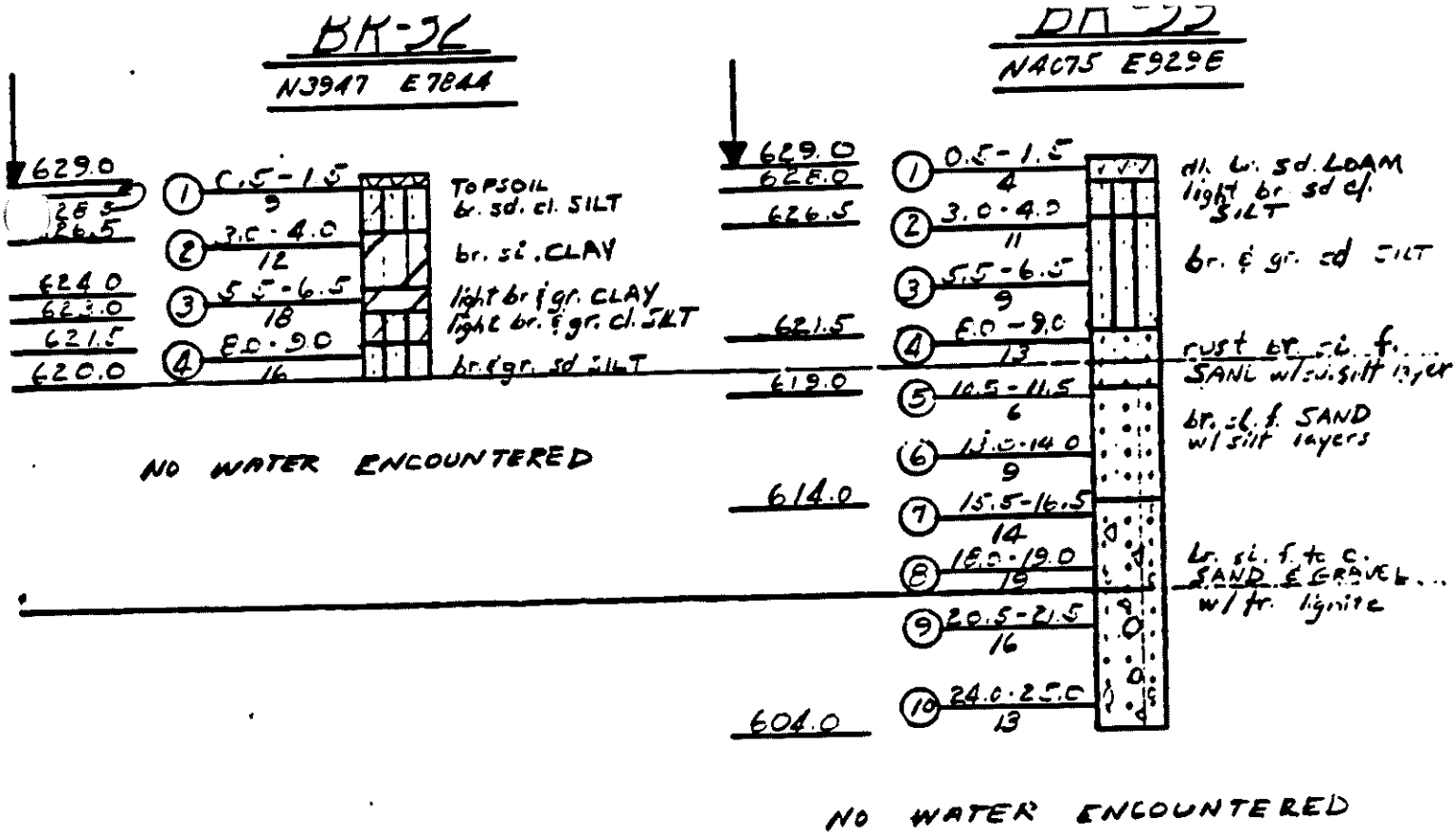
NO WATER ENCOUNTERED

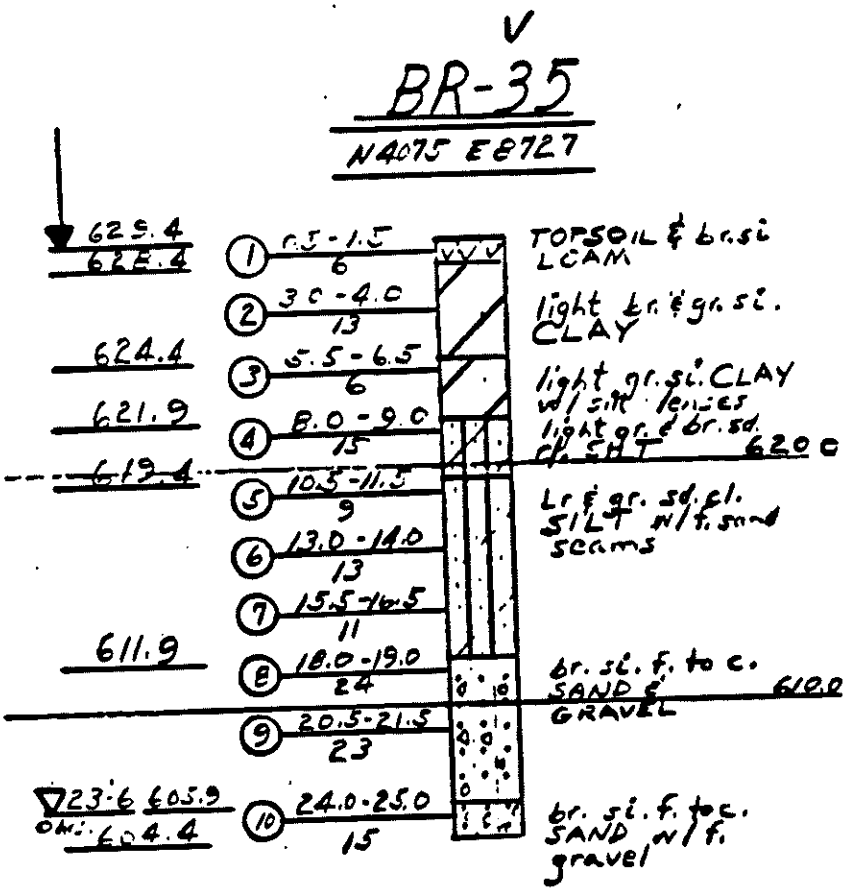
BR-19

N3669 E10040

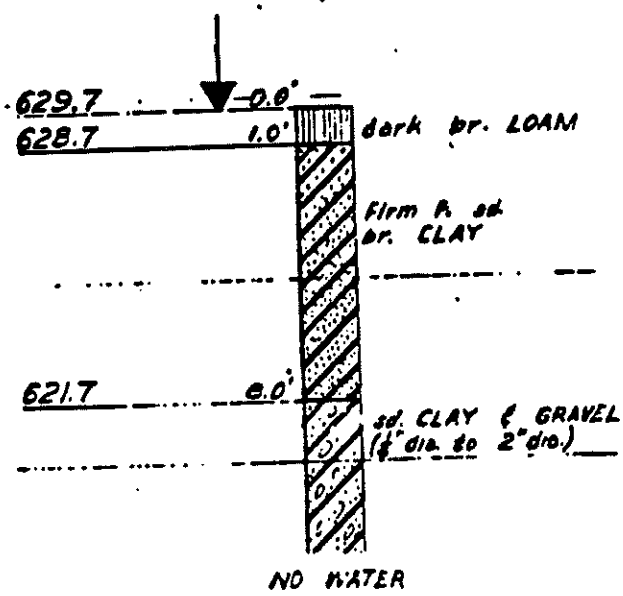


NO WATER ENCOUNTERED

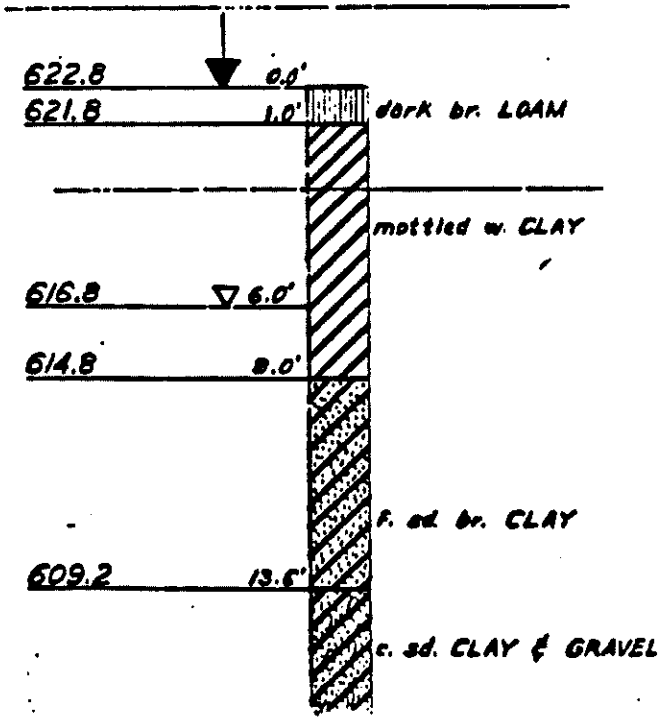

BR-36
N3947 E7844
629.0
628.5
626.5
624.0
622.0
621.5
620.0
1 0.5-1.5 9
2 3.0-4.0 12
3 5.5-6.5 18
4 8.0-9.0 16
TOPSOIL br. sd. cl. SILT
br. sl. CLAY
light br & gr. CLAY
light br. & gr. cl. SILT
br & gr. sd SILT
NO WATER ENCOUNTERED
BR-22
N4075 E929E
629.0
628.0
626.5
621.5
619.0
614.0
604.0
1 0.5-1.5 4
2 3.0-4.0 11
3 5.5-6.5 9
4 8.0-9.0 13
5 10.5-11.5 6
6 13.0-14.0 9
7 15.5-16.5 14
8 18.0-19.0 19
9 20.5-21.5 16
10 24.0-25.0 13
dk. br. sd. LOAM
light br. sd cl. SILT
br. & gr. cd SILT
rust br. sl. f. SAND w/ cl. silt layer
br. sl. f. SAND w/ silt layers
Lr. sl. f. to c. SAND & GRAVEL ... w/ tr. lignite
NO WATER ENCOUNTERED


V
BR-35
N4075 E8727
629.4
628.4
624.4
621.9
619.4
611.9
610.0
605.9
604.4
1 0.5-1.5 6
2 3.0-4.0 13
3 5.5-6.5 6
4 8.0-9.0 15
5 10.5-11.5 9
6 13.0-14.0 13
7 15.5-16.5 11
8 18.0-19.0 24
9 20.5-21.5 23
10 24.0-25.0 15
TOPSOIL & br. sl LOAM
light br. & gr. sl. CLAY
light gr. sl. CLAY w/ silt layers
light gr. & br. sd. cl. SILT
Lr & gr. sd. cl. SILT w/ f. sand seams
br. sl. f. to c. SAND & GRAVEL
br. sl. f. to c. SAND w/ f. gravel

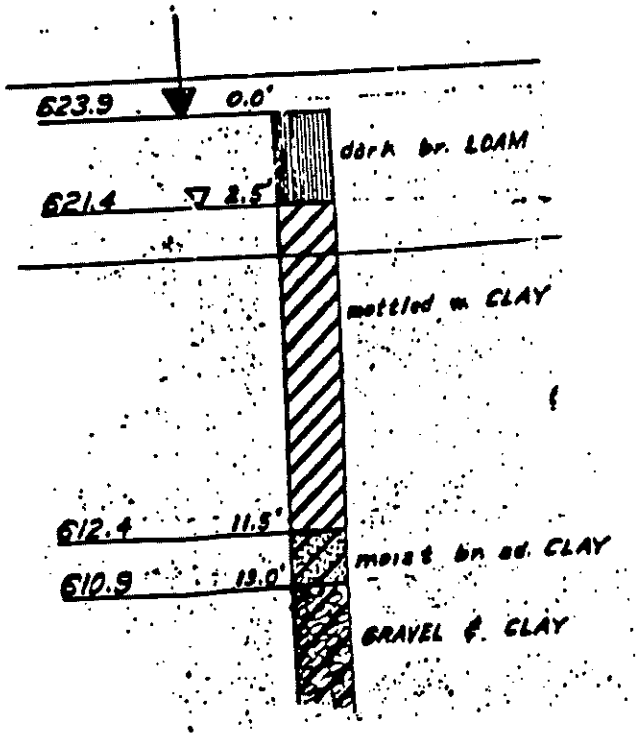
TB-2
N-3285 E-5315



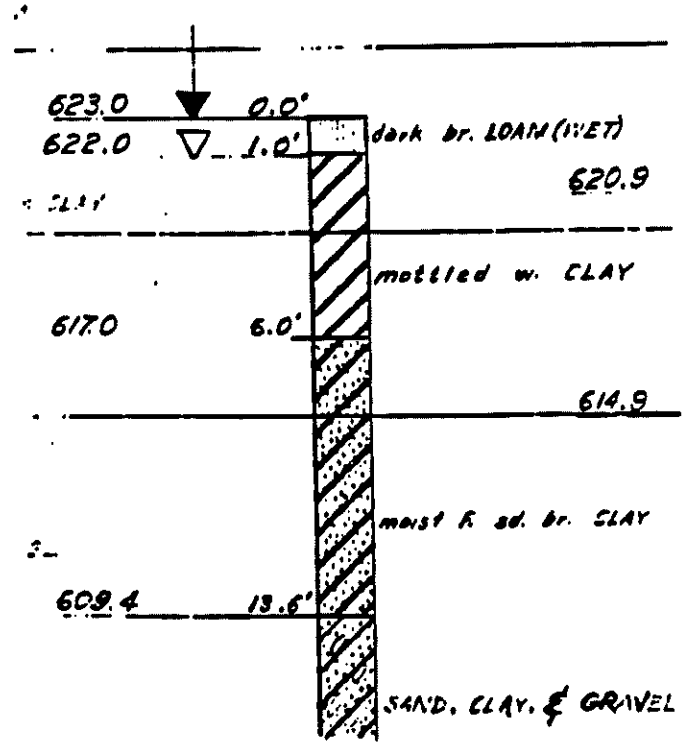
TB-6
N-4070 E-5135



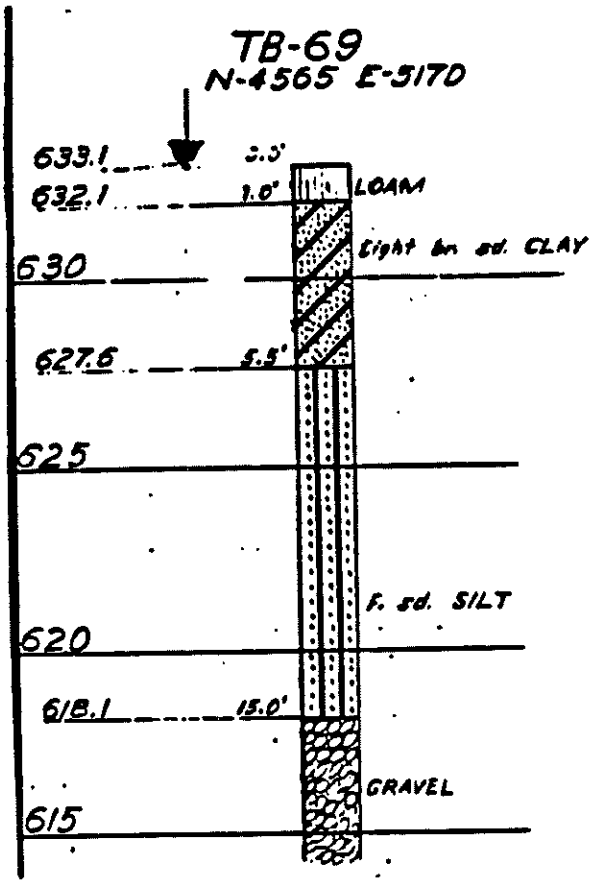
TB-12
N-3900 E-5835



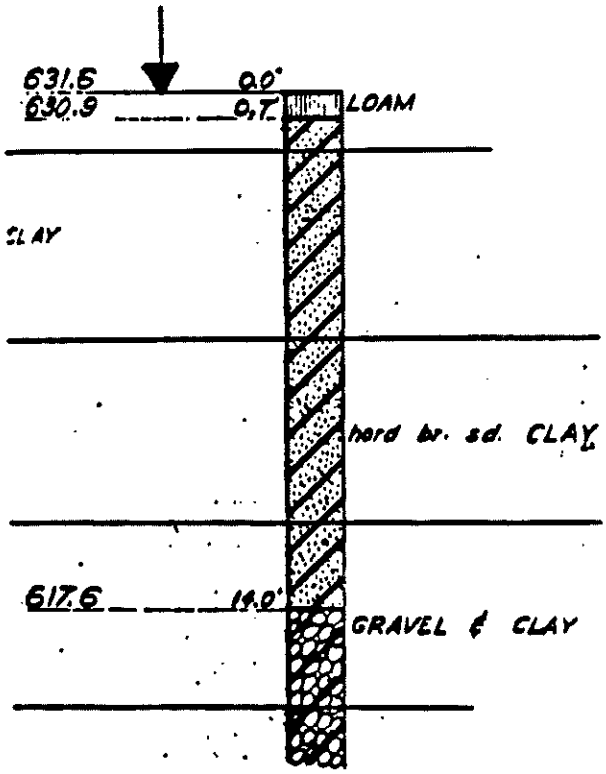
TB-17
N-4150 E-6560



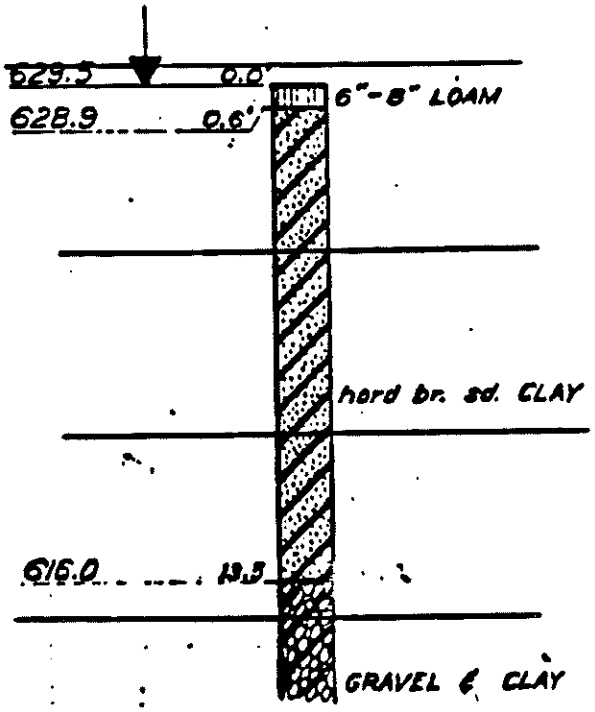
TB-69
N-4565 E-5170



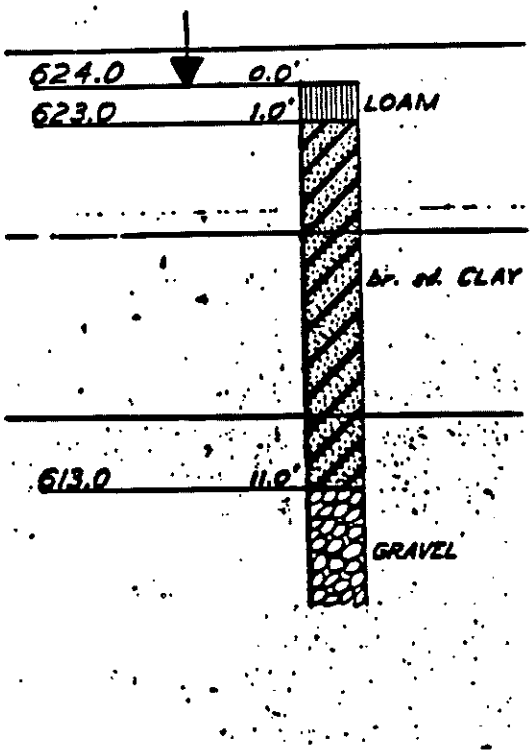
TB-73
N-3480 E-6610



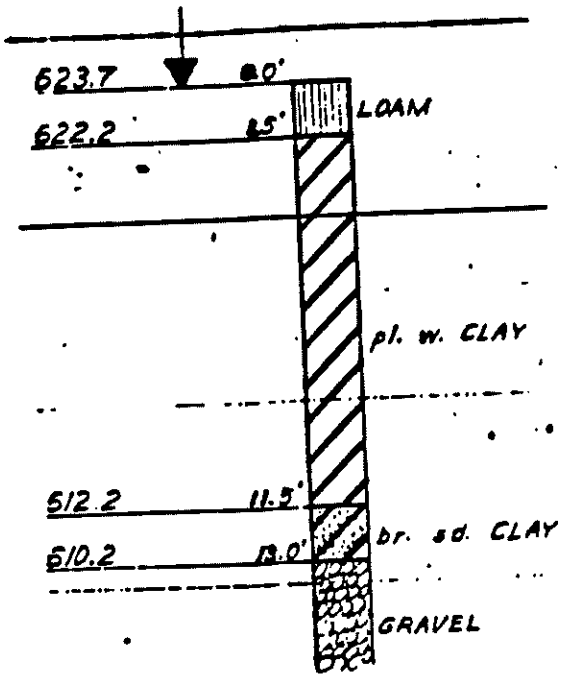
TB-74
N-3635 E-6560



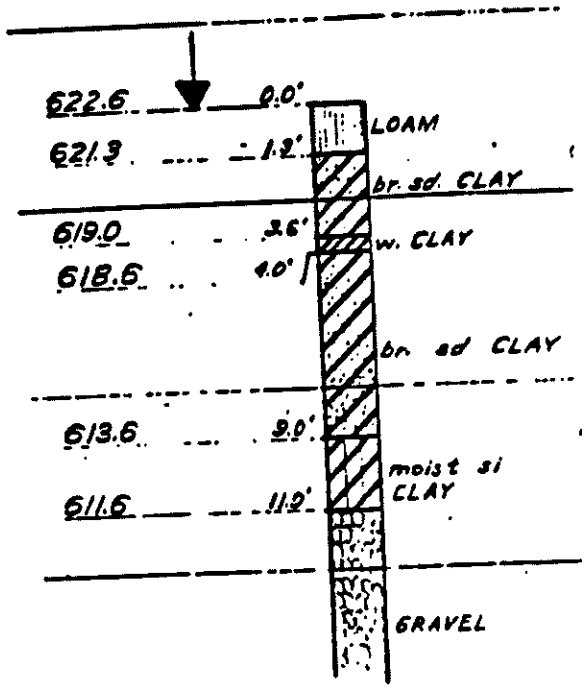
TB-78
N-3970 E-5195



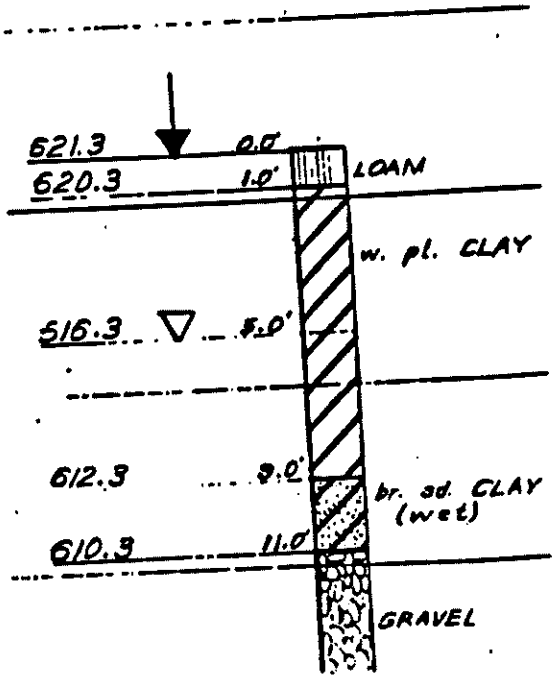
TB-56
N-3820 E-5825



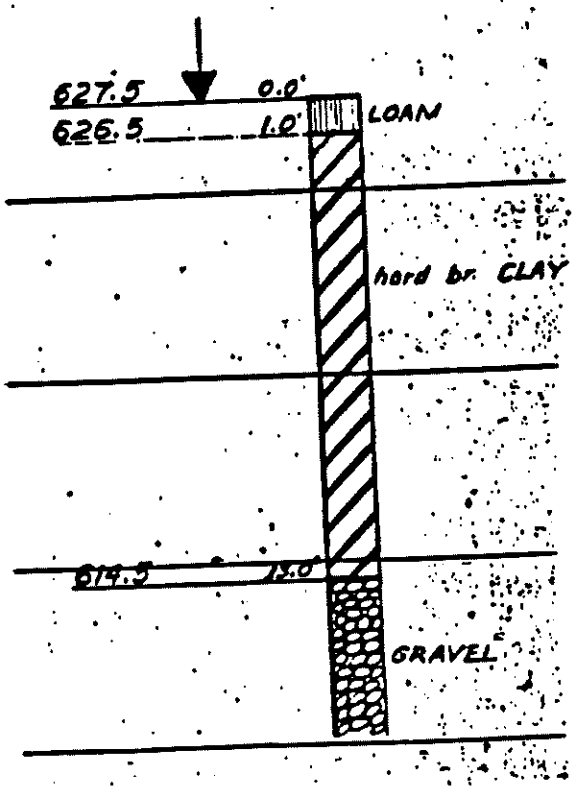
TB-59
N-3930 E-5300

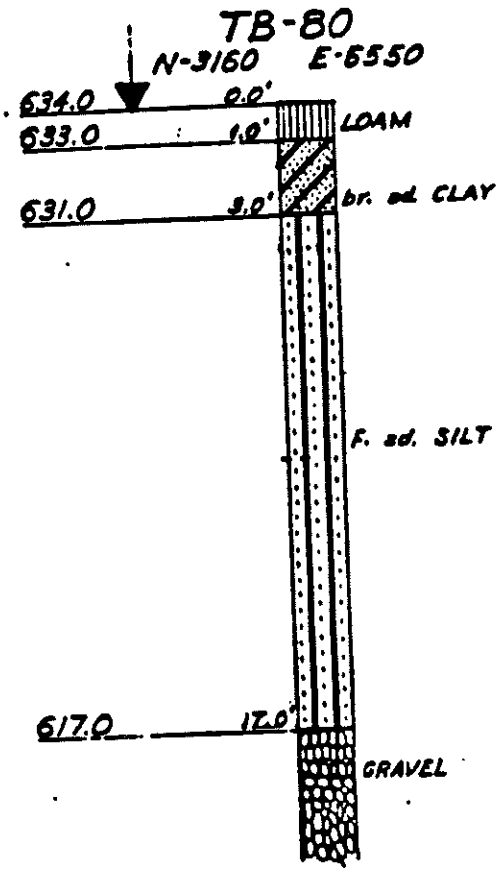


TB-61
N-3805 E-5275



TB-68
N-3530 E-5270




TB-80
N-3160 E-6550
634.0
0.0'
633.0
1.0'
631.0
3.0'
617.0
17.0'
LOAM
br. sd. CLAY
F. sd. SILT
GRAVEL

NOTE: DUE TO LACK OF COMPLETE DATA AND INABILITY TO FIND WELL, GROUND LEVEL WAS ASSUMED TO BE AT TOP OF CASING ELEV.

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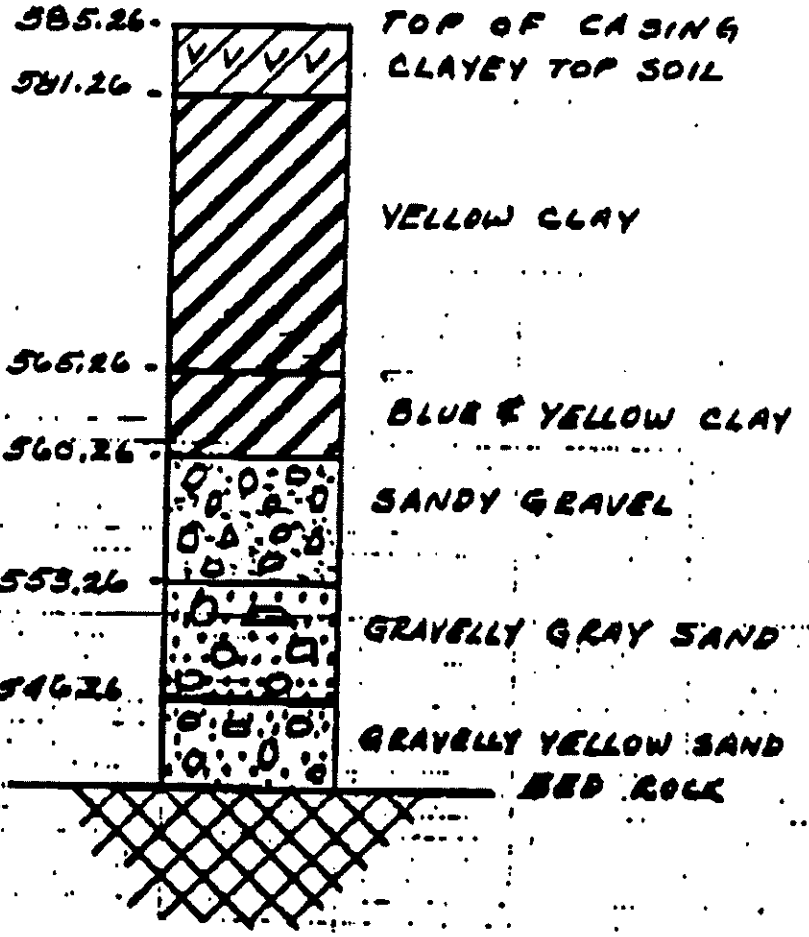


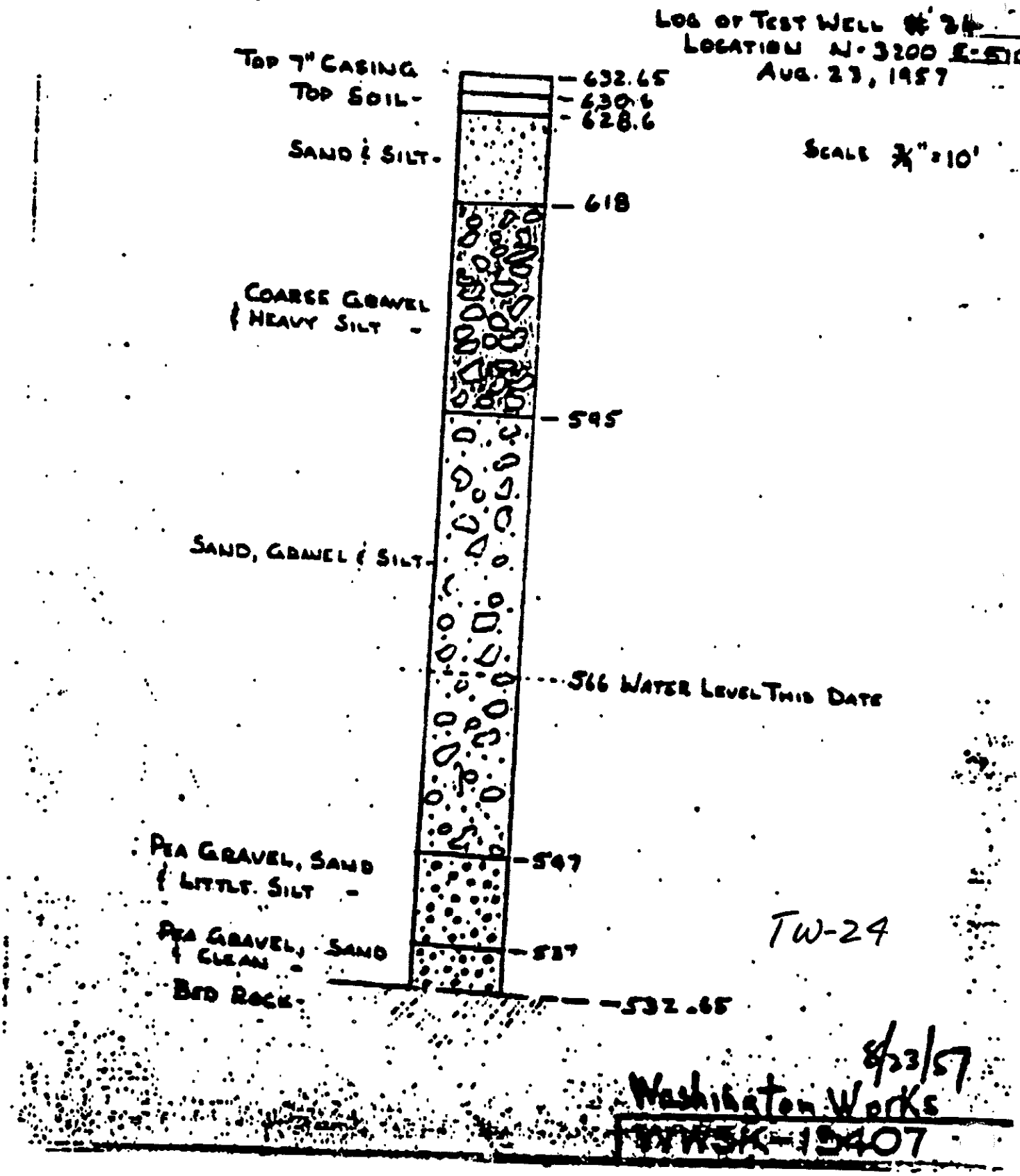
E. I. DuPONT DE NEMOURS & CO. — WASHINGTON WORKS

TEST WELL No. 1 N 5240.1 E 4372.5 TN-1

5/1/59

WWW-13402

K - File - Test Wells



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TESTING ENGINEERS AND SOIL CONSULTANTS • SINCE 1921
4120 AIRPORT ROAD • CINCINNATI, OHIO 45226 • TEL. 513-321-5816

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REVISED
5-29-73 bs

TEST BORING REPORT

P.O. No. LPW 18428X

CLIENT E. I. Du Pont De Nemours & Company ORDER No. 737.91

PROJECT Proposed Well Location No. 6, East Field Well, Parkersburg, W. V. HOLE No. Well #6

LOCATION as staked by client in the field

DRILLER W. Martin DRILL No. 18 DATE STARTED 5/16/73

ELEVATION REFERENCE _____ DATE COMPLETED 5/16/73

CASING: DIAMETER 3.5" I.D. Hollow Stem Auger HAMMER WT. _____ FALL _____

SAMPLER: DIAMETER & TYPE 2" O.D. Split Spoon HAMMER WT. 140# FALL 30"

DEPTH TO WATER: IMMEDIATE 55.0' Backfilled upon UPON COMPLETION caved at 30.0'

DEPTH TO WATER _____ DAYS AFTER COMPLETION Completion WATER USED IN DRILLING from 57.0'

ELEVATION	DEPTH	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec.	Recover
	0'		1	0-1	SS	2-3	10"
	1.0'	Topsoil, moist					
	1.0'		2	1-1.5	SS	-4-	6"
	9.0'	Brown clayey sandy silt, with clay layers, moist - medium stiff	3	5-6.5	SS	2-3-3	18"
	10.0'		4	10-11.5	SS	5-5-6	15"
	15.0'	Brown fine to coarse sand with fine gravel, trace of coarse gravel, very moist to wet, medium stiff	5	15-16.5	SS	4-5-6	11"
			6	20-21.5	SS	3-5-6	12"
	25.0'		7	25-26.5	SS	10-17-20	14"
			8	30-31.5	SS	8-12-15	15"
			9	32.5-34	SS	13-18-24	14"
			10	35-36.5	SS	12-17-23	12"
			11	37.5-39	SS	12-18-21	15"
			12	40-41.5	SS	10-14-21	14"
			13	42.5-44	SS	9-10-11	14"
			14	45-46.5	SS	8-11-14	13"
			15	50-51.5	SS	7-11-16	14"

WBPF 2243

REMARKS: SH. 2 OF _____

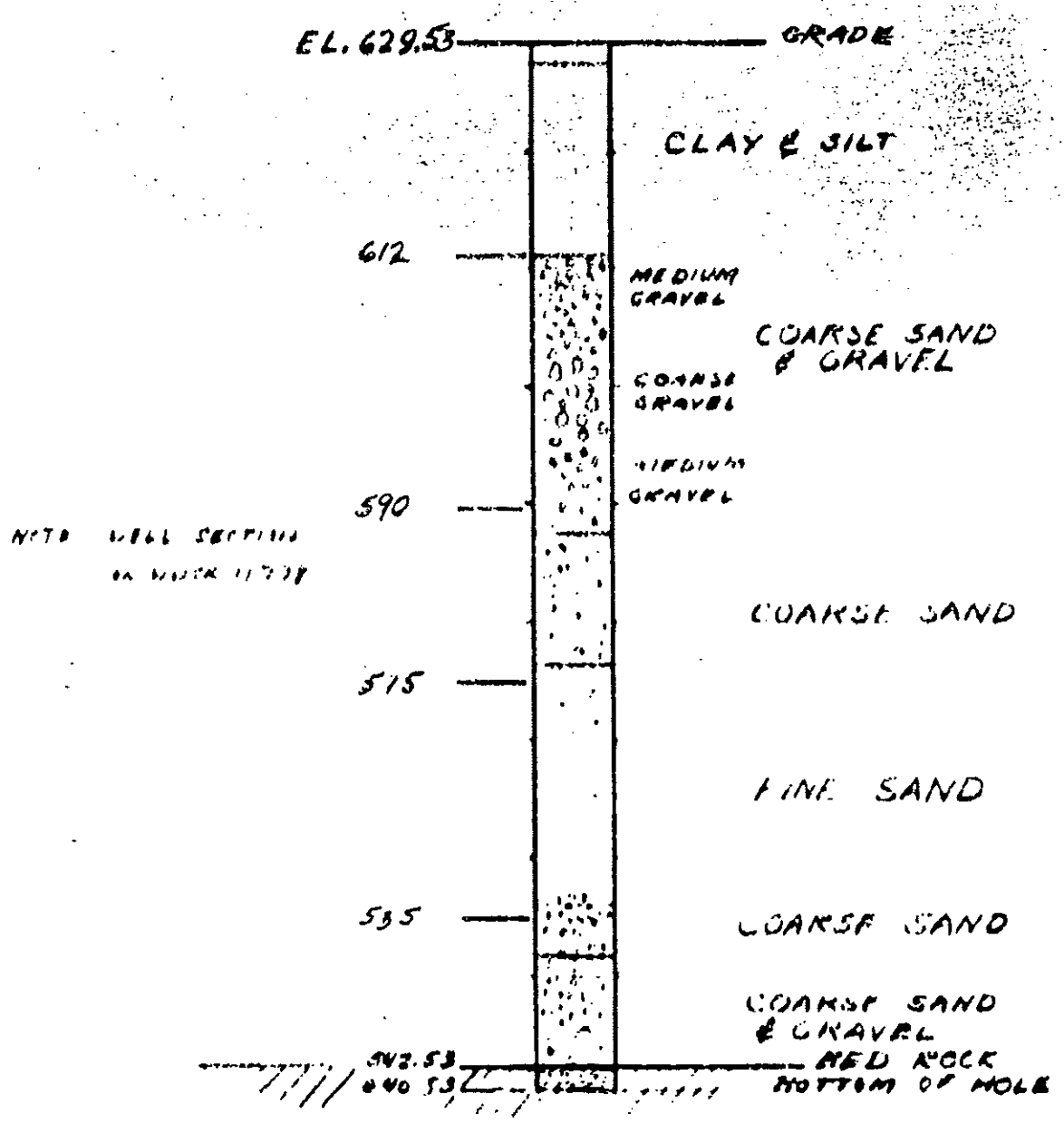
Samples recovered from this test boring are available for inspection, which is strongly recommended. The company assumes no responsibility for interpretations made by others of load bearing, stability, excavating or other physical characteristics of materials penetrated in the boring.

Respectfully submitted,
THE H. C. NUTTING CO.
By _____

PROJECT 9205 - WASHINGTON WORKS
ADDITIONAL CLEAR WATER FACILITIES

DRILLING LOG OF WELL NO. 5, EAST FIELD. BLDG 335, FA 3818-616, LOCATED AT N3335, E-11,180. DRILLED 2/1 TO 2/8, 1961.

Lat. 39°16'2" N
Long. 81° 38' 48" W



2/15/61
DEL
NWSR - 11779

PROJECT Proposed Well Location No. 6, East Field Well, Parkersburg, W. V. HOLE No. Well #6

ELEVATION	DEPTH	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec.	Recover
	25.0'						
		27.5' Brown fine to coarse sand with fine gravel, moist - dense to very dense					
	52.5'		16	52.5-54	SS	9-13-15	15"
		2.5' Brown fine to coarse sand, trace of fine gravel, moist - medium dense					
	55.0'		17	55-57	SS	9-12-13-16	14"
		38.5' Brown fine to coarse sand, trace of fine gravel, wet - medium dense to dense	18	57-58.5	SS	12-14-15	12"
			19	58.5-60	SS	13-15-18	13"
			20	60-62	SS	12-15-19-26	16'
			21	62-63.5	SS	13-18-24	12"
			22	63.5-65	SS	12-16-24	11"
			23	65-67	SS	14-21-26-31	16"
			24	67-68.5	SS	13-16-24	12"
			25	68.5-70	SS	12-21-27	14"
			26	70-72	SS	14-16-20-22	15"
			27	72-73.5	SS	10-16-21	14"
			28	73.5-75	SS	12-15-22	12"
			29	75-77	SS	13-16-19-21	15"
			30	77-78.5	SS	14-21-28	11"
			31	78.5-80	SS	13-18-29	12"
			32	80-82	SS	17-24-39-36	16"
			33	82-83.5	SS	16-21-33	11"
			34	83.5-85	SS	15-21-27	13"
			35	85-87	SS	16-31-48-45	15"
			36	87-88.5	SS	18-21-38	12"
			37	88.5-90	SS	16-27-35	11"
			38	90-92	SS	17-31-47-51	16"
			39	92-93.5	SS	16-32-38	13"
	93.5'		40	93.5-95	SS	21-44-33	14"
		1.5' Brown fine to medium sand, trace of fine gravel, wet - very dense					
	95.0'		41	95-96	SS	41-122	9"
		1.0' Brown and gray fine to coarse sand with fine gravel and rock fragments, wet - very dense					
	96.0'						
		BORING COMPLETED					

WBPF 2243

SH. 3 OF

MID-EASTERN GeoTech INC.
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TEST BORING REPORT

CLIENT E I DuPont ORDER No. M89-123
PROJECT Washington Works HOLE No. BD-166
LOCATION Washington, WV N4508, E6573 El. 631.4

DRILLER Dave Robinson DRILL No. CME-55 DATE STARTED 7/13/89
ELEVATION REFERENCE 631.4 DATE COMPLETED 7/13/89
CASING: DIAMETER 3.25" ID Hollow Stem Auger HAMMER WT. FALL
SAMPLER: DIAMETER & TYPE 2.0" OD Split Spoon BARREL HAMMER WT. 140# FALL 2.5'
DEPTH TO WATER: IMMEDIATE UPON COMPLETION
DEPTH TO WATER DAYS AFTER COMPLETION WATER USED IN DRILLING

ELEVATION	DEPTH 0'	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec	RECOVERY
628.9	2.5	Moist loose, yellowish brown sandy silt	1	1.0-2.5	SS	4-4-4	16"
626.4	5.0	Moist, loose, yellowish brown sandy silt	2	3.5-5.0	SS	3-2-4	18"
623.9	7.5	Moist, loose, yellowish brown silty sand	3	6.0-7.5	SS	2-2-4	18"
621.4	10.0	Moist, loose, yellowish brown silty sand	4	8.5-10.0	SS	3-4-5	18"
618.4	13.0	Moist, loose, yellowish brown silty sand	5	11.5-13.0	SS	3-4-5	18"
616.4	15.0	Moist, loose, yellowish brown silty sand	6	13.5-15.0	SS	3-2-4	18"
611.4	20.0	Moist, loose, yellowish brown sand, some gravel	7	18.5-20.0	SS	3-3-4	10"
606.4	25.0	Moist, loose, yellowish brown sand, little gravel	8	23.5-25.0	SS	3-4-6	12"
601.4	30.0	Moist, medium, yellowish brown sand, trace gravel	9	28.5-30.0	SS	3-6-5	15"
596.4	35.0	Moist, loose, yellowish brown sand, little gravel	10	33.5-35.0	SS	3-6-4	10"

Respectfully submitted,

As a mutual protection to the owners and ourselves, the engineer in the owner's behalf shall check this report with the samples submitted prior to the purchase of property, or designing of structures.

By Fay Harmon

PROJECT Washington Works HOLE No. BD-166

ELEVATION	DEPTH	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec.	RECOVERY
591.4	40.0	Moist, loose, yellowish brown sand and gravel END OF BORING	11	38.5-40.0	SS	3-5-5	11"

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TEST BORING REPORT

CLIENT E I DuPont — ORDER No. M89-123
PROJECT Washington Works — HOLE No. BD-165
LOCATION Washington, WV N4518, E6595 El. 632.3

DRILLER Larry Francis — DRILL No. Acker II — DATE STARTED 7/13/89
ELEVATION REFERENCE 632.3 — DATE COMPLETED 7/13/89
CASING: DIAMETER 3.25" ID Hollow Stem Auger — HAMMER WT. _____ — FALL _____
SAMPLER: DIAMETER & TYPE 2.0" OD Split Spoon — BARREL HAMMER WT. 140# — FALL 2.5'
DEPTH TO WATER: IMMEDIATE _____ — UPON COMPLETION _____
DEPTH TO WATER _____ — DAYS AFTER COMPLETION _____ — WATER USED IN DRILLING _____

ELEVATION	DEPTH 0'	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec.	RECOVERY
629.8	2.5	Moist, dense, brown sandy silt, trace weathered sandstone fragments, trace gravel	1	1.0-2.5	SS	17-19-22	18"
627.3	5.0	Moist, loose, yellowish brown silty sand	2	3.5-5.0	SS	4-5-5	18"
624.8	7.5		3	6.0-7.5	ST	H.P.	18"
622.3	10.0	Moist, loose, yellowish brown silty sand	4	8.5-10.0	SS	3-5-3	18"
619.8	12.5	Moist, medium, yellowish brown sand	5	11.0-12.5	SS	4-6-5	18"
617.3	15.0	Moist, loose, yellowish brown sand	6	13.5-15.0	SS	3-3-5	18"
612.3	20.0	Moist, loose, yellowish brown sand	7	18.5-20.0	SS	4-4-6	14"
607.3	25.0	Moist, loose, yellowish brown sand, some gravel	8	23.5-25.0	SS	4-5-5	14"
602.3	30.0	Moist, medium, yellowish brown sand, trace gravel	9	28.5-30.0	SS	5-7-6	16"
597.97	34.33	Moist, very dense, yellowish brown sand, some gravel	10	33.5-34.33	SS	34-50/4"	14"
592.3	40.0	Moist, very dense, yellowish brown sand, some gravel	11	38.5-40.0	SS	19-26-25	18"

Respectfully submitted,

As a mutual protection to the owners and ourselves, the engineer in the owner's behalf shall check this report with the samples submitted prior to the purchase of property, or designing of structures.

By Fay Harmon

PROJECT Washington Works HOLE No. BD-165

ELEVATION	DEPTH	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec.	RECOVERY
587.3	45.0	Moist, very dense, yellowish brown sand, trace gravel	12	43.5-45.0	SS	19-24-30	18"
582.3	50.0	Moist, medium, yellowish brown sand, trace gravel	13	48.5-50.0	SS	4-7-12	18"
		END OF BORING					

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TEST BORING REPORT

CLIENT E I DuPont ORDER No. M89-123
PROJECT Washington Works HOLE No. BD-164
LOCATION Washington, WV N4622, E6595 El. 632.9

DRILLER Dave Robinson DRILL No. CME-55 DATE STARTED 7/13/89
ELEVATION REFERENCE 632-92 DATE COMPLETED 7/13/89
CASING: DIAMETER 3.25" ID Hollow Stem Auger HAMMER WT. _____ FALL _____
SAMPLER: DIAMETER & TYPE 2.0" OD Split Spoon BARREL HAMMER WT. 140# FALL 2.5'
DEPTH TO WATER: IMMEDIATE _____ UPON COMPLETION _____
DEPTH TO WATER _____ DAYS AFTER COMPLETION _____ WATER USED IN DRILLING _____

ELEVATION	DEPTH 0'	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec	RECOVERY
630.42	2.5	Moist, loose, brown sandy silt	1	1.0-2.5	SS	4-3-6	16"
627.92	5.0	Moist, loose, yellowish brown sandy silt	2	3.5-5.0	SS	2-4-5	18"
624.92	8.0		3	6.0-8.0	ST	H.P.	
622.92	10.0	Moist, loose, yellowish brown silty sand	4	8.5-10.0	SS	2-4-4	18"
619.92	13.0	Moist, loose, yellowish brown sand, trace silt	5	11.5-13.0	SS	3-4-5	18"
617.92	15.0	Moist, loose, yellowish brown sand, trace silt	6	13.5-15.0	SS	3-3-3	14"
612.92	20.0	Moist, loose, yellowish brown sand, trace gravel	7	18.5-20.0	SS	3-4-4	1"
607.92	25.0	Moist, loose, yellowish brown sand, trace gravel	8	23.5-25.0	SS	3-3-3	3"
602.92	30.0	Moist, loose, yellowish brown sand, some gravel	9	28.5-30.0	SS	4-3-3	6"
		END OF BORING					

Respectfully submitted,

As a mutual protection to the owners and ourselves, the engineer in the owner's behalf shall check this report with the samples submitted prior to the purchase of property, or designing of structures.

By Fay Harmon

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TEST BORING REPORT

CLIENT E I DuPont — ORDER No. M89-123
PROJECT Washington Works — HOLE No. BD-163
LOCATION Washington, WV N4660, E6576 El. 633.0
DRILLER Larry Francis — DRILL No. Acker II — DATE STARTED 7/13/89
ELEVATION REFERENCE 633.03 — DATE COMPLETED 7/13/89
CASING: DIAMETER 2.0" OD Split Spoon — HAMMER WT 140# — FALL 2.5'
SAMPLER: DIAMETER & TYPE — BARREL HAMMER WT — FALL
DEPTH TO WATER: IMMEDIATE — UPON COMPLETION
DEPTH TO WATER — DAYS AFTER COMPLETION — WATER USED IN DRILLING

ELEVATION	DEPTH 0'	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec	RECOVERY
630.53	2.5	Moist, medium, brown sandy silt, trace gravel	1	1.0-2.5	SS	9-8-7	18"
628.03	5.0	Moist, medium, yellowish brown sandy silt, trace clay	2	3.5-5.0	SS	4-5-8	18"
625.53	7.5	Moist, loose, yellowish brown silty sand	3	6.0-7.5	SS	3-5-5	18"
623.03	10.0	Moist, loose, yellowish brown silty sand	4	8.5-10.0	SS	3-4-4	18"
620.53	12.5	Moist, medium, yellowish brown silty sand	5	11.0-12.5	SS	5-7-7	18"
618.03	15.0	Moist, medium, yellowish brown sand, trace silt	6	13.5-15.0	SS	5-8-6	18"
613.03	20.0	Moist, medium, yellowish brown sand, some gravel	7	18.5-20.0	SS	5-5-6	16"
608.03	25.0	Moist, medium, yellowish brown sand, little gravel	8	23.5-25.0	SS	6-6-6	16"
603.03	30.0	Moist, medium, yellowish brown sand, little gravel	9	28.5-30.0	SS	2-4-9	10"
598.03	35.0	Moist, loose, yellowish brown sand, some gravel	10	33.5-35.0	SS	4-4-5	6"
		END OF BORING					

Respectfully submitted,

By Fay Harmon

As a mutual protection to the owners and ourselves, the engineer in the owner's behalf shall check this report with the samples submitted prior to the purchase of property, or designing of structures.

MID-EASTERN GeoTech INC.
SOILS AND MATERIALS ENGINEERING

Route 1, Box 130C
Marietta, OH 45750
Phone: 614-373-0664

"AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL."

TEST BORING REPORT

CLIENT E I DuPont ORDER No. M89-123
PROJECT Washington Works HOLE No. BD-162
LOCATION Washington, WV N4730, E6576 El. 633.6

DRILLER Dave Robinson DRILL No. CME-55 DATE STARTED 7/13/89
ELEVATION REFERENCE DATE COMPLETED 7/13/89
CASING: DIAMETER 3.25" ID Hollow Stem Auger HAMMER WT. FALL
SAMPLER: DIAMETER & TYPE 2.0" OD Split Spoon BARREL HAMMER WT. 140# FALL 2.5'
DEPTH TO WATER: IMMEDIATE UPON COMPLETION
DEPTH TO WATER DAYS AFTER COMPLETION WATER USED IN DRILLING

ELEVATION	DEPTH 0'	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec	RECOVERY
	2.5	Moist, loose, brown sandy silt	1	1.0-2.5	SS	2-3-5	18"
	5.0	Moist, medium, yellowish brown sandy silt	2	3.5-5.0	SS	4-6-7	18"
	7.5	Moist, medium, yellowish brown sandy silt	3	6.0-7.5	SS	6-5-6	18"
	10.0	Moist, medium, yellowish brown silty sand	4	8.5-10.0	SS	3-5-6	18"
	13.0	Moist, loose, yellowish brown silty sand	5	11.5-13.0	SS	4-4-6	18"
	15.0	Moist, medium, yellowish brown silty sand	6	13.5-15.0	SS	5-5-6	18"
	20.0	Moist, loose, yellowish brown sand, trace gravel	7	18.5-20.0	SS	5-4-6	18"
	25.0	Moist, loose, yellowish brown sand, trace gravel	8	23.5-25.0	SS	4-2-4	18"
	30.0	No Recovery (Pushing Rock)	9	28.5-30.0	SS	7-9-10	0"
	35.0	Moist, medium, yellowish brown sand, trace gravel	10	33.5-35.0	SS	6-13-15	18"

END OF BORING

Respectfully submitted,

As a mutual protection to the owners and ourselves, the engineer in the owner's behalf shall check this report with the samples submitted prior to the purchase of property, or designing of structures.

By Fay Harmon

4

MID-EASTERN GeoTech INC.
SOILS AND MATERIALS ENGINEERING

P.O. Box 247
Williamstown, W. Va. 26187
Phone: 614-373-0664

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N4014
E 4978
El. 629.5

TEST BORING REPORT

CLIENT E.I. duPont ORDER No. M88-41
PROJECT E.I. duPont HOLE No. BD-161-
LOCATION Washington, WV

DRILLER Roy Pugh Jr. DRILL No. Acker DATE STARTED 4-15-88
ELEVATION REFERENCE Existing Ground Elevation DATE COMPLETED 4-15-88
CASING: DIAMETER 3.25" I.D. Hollow Stem Auger HAMMER WT. ____ FALL ____
SAMPLER: DIAMETER & TYPE 2.0" O.D. Split Spoon BARREL HAMMER WT. 140 lbs. FALL 2.5 ft.
DEPTH TO WATER: IMMEDIATE ____ UPON COMPLETION ____
DEPTH TO WATER ____ DAYS AFTER COMPLETION ____ WATER USED IN DRILLING ____

ELEVATION	DEPTH	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec	RECOVERY
	2.0	Moist, very dense, black sand, trace cinders, trace slag, trace coal (fill)	1	0-2.0	SS	10-25-30-27	12"
	4.0	Moist, medium, yellowish brown silty sand	2	2.0-4.0	SS	6-7-6-9	20"
	7.0	Moist, medium, yellowish brown silty sand	3	5.0-7.0	SS	2-3-6-9	14"
	9.0	Moist, medium, yellowish brown silty sand	4	7.0-9.0	SS	2-3-5-9	20"
	12.0	Moist, loose, yellowish brown silty sand, trace clay	5	10.0-12.0	SS	2-3-5-4	18"
	14.0	Moist, medium, yellowish brown silty sand, trace clay, trace gravel	6	12.0-14.0	SS	3-6-7-8	7"
	17.0	Moist, loose, yellowish brown silty sand, trace gravel	7	15.0-17.0	SS	2-4-5-4	10"
	21.5	Moist, loose, yellowish brown silty sand, trace gravel	8	20.0-21.5	SS	2-3-6	6"
		END OF BORING					

Respectfully submitted,

As a mutual protection to the owners and ourselves, the engineer in the owner's behalf shall check this report with the samples submitted prior to the purchase of property, or designing of structures.

By Jay E. Hammond

MID-EASTERN GeoTech INC.
SOILS AND MATERIALS ENGINEERING

P.O. Box 247
Williamstown, W. Va. 26187
Phone: 614-373-0664

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TEST BORING REPORT

N4078
E3728
El. 627.0

CLIENT E.I. Dupont ORDER No. M88-41
PROJECT E.I. Dupont HOLE No. BD-160
LOCATION Washington, WV

DRILLER Roy Pugh Jr. DRILL No. Acker DATE STARTED 4-13-88
ELEVATION REFERENCE Existing Ground Elevation DATE COMPLETED 4-13-88
CASING: DIAMETER 3.25" I.D. Hollow Stem Auger HAMMER WT. ____ FALL ____
SAMPLER: DIAMETER & TYPE 2.0" O.D. Split Spoon BARREL HAMMER WT. 140 lbs FALL 2.5 ft.
DEPTH TO WATER: IMMEDIATE ____ UPON COMPLETION ____
DEPTH TO WATER ____ DAYS AFTER COMPLETION ____ WATER USED IN DRILLING ____

ELEVATION	DEPTH 0'	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec	RECOVERY
		2 inches asphalt underlain by					
	2.0	Damp, very dense, yellowish brown sandy silt, trace limestone fragments	1	0-2.0	SS	20-25-28-30	24"
	4.0	Damp, medium, yellowish brown silt, some sand, trace black inclusions	2	2.0-4.0	SS	9-7-7-7	16"
	7.0	Moist, loose, yellowish brown sandy silt	3	5.0-7.0	SS	5-4-5-4	16"
	9.0	Moist, loose, yellowish brown silt, some sand	4	7.0-9.0	SS	4-3-5-5	24"
	12.0	Moist, loose, yellowish brown silty sand	5	10.0-12.0	SS	3-3-4-4	20"
	15.0	Very moist, loose, yellowish brown silty fine sand	6	13.0-15.0	SS	4-3-4-5	24"
	18.0	Very moist, medium, yellowish brown sand, little gravel	7	16.0-18.0	SS	11-9-10-5	14"
	22.0	Moist, dense, yellowish brown sand, little gravel	8	20.0-22.0	SS	8-17-16-23	18"
	27.0	Moist, dense, yellowish brown gravelly sand	9	25.0-27.0	SS	18-16-14-23	18"

Respectfully submitted,

As a mutual protection to the owners and ourselves, the engineer in the owner's behalf shall check this report with the samples submitted prior to the purchase of property, or designing of structures.

By Jay E. Hanson

PROJECT E.I. Dupont, Washington, WV HOLE No. BD-160 conti-

ELEVATION	DEPTH	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec.	RECOVERY
	32.0	Moist, dense, yellowish brown sand, little gravel END OF BORING	10	30.0 32.0	SS	13-15-15-19	18"

LUBECK
Public Service District

P.O. Box 700, Washington, West Virginia 26181-0700

James M. Cox, Manager

Telephone (304) 863-3341
Facsimile (304) 863-3791

May 19, 1998

COMMISSIONERS:
James E. Smith, Chairman
Charles H. Huffman, Secretary
Lee "Ox" Johnson, Treasurer

William Toomey
WV Bureau for Public Health
815 Quarrier Street
Charleston, WV 25301

Re: Wellhead Protection Survey

Dear Mr. Toomey,

Please accept our enclosed Wellhead Protection Area Survey. With the assistance of Mr. Baker of WV Rural Water, we have inventoried the potential sources of groundwater contamination within the Wellhead Protection Area delineated by your office in 1994. Within this protection area the potential sources which cause the greatest concern include possible spills on the railroad tracks adjacent to our wells, and possible dredging of the riverbed next to them.

Also, we have added a Secondary Protection Area which includes the watershed of a small tributary stream of the Ohio River. This stream enters the Ohio River very near our wellfield, and due to concern over past spills to this stream we have included it in our protection plan. There are a number of industrial sites within this secondary area, including landfills.

Lubeck PSD has received approval from your office for other parts of our protection plan. We trust this update of our survey will meet with your approval as well. Please advise if there is anything else we may do to update the overall plan.

Sincerely,

James M. Cox

James M. Cox
Manager

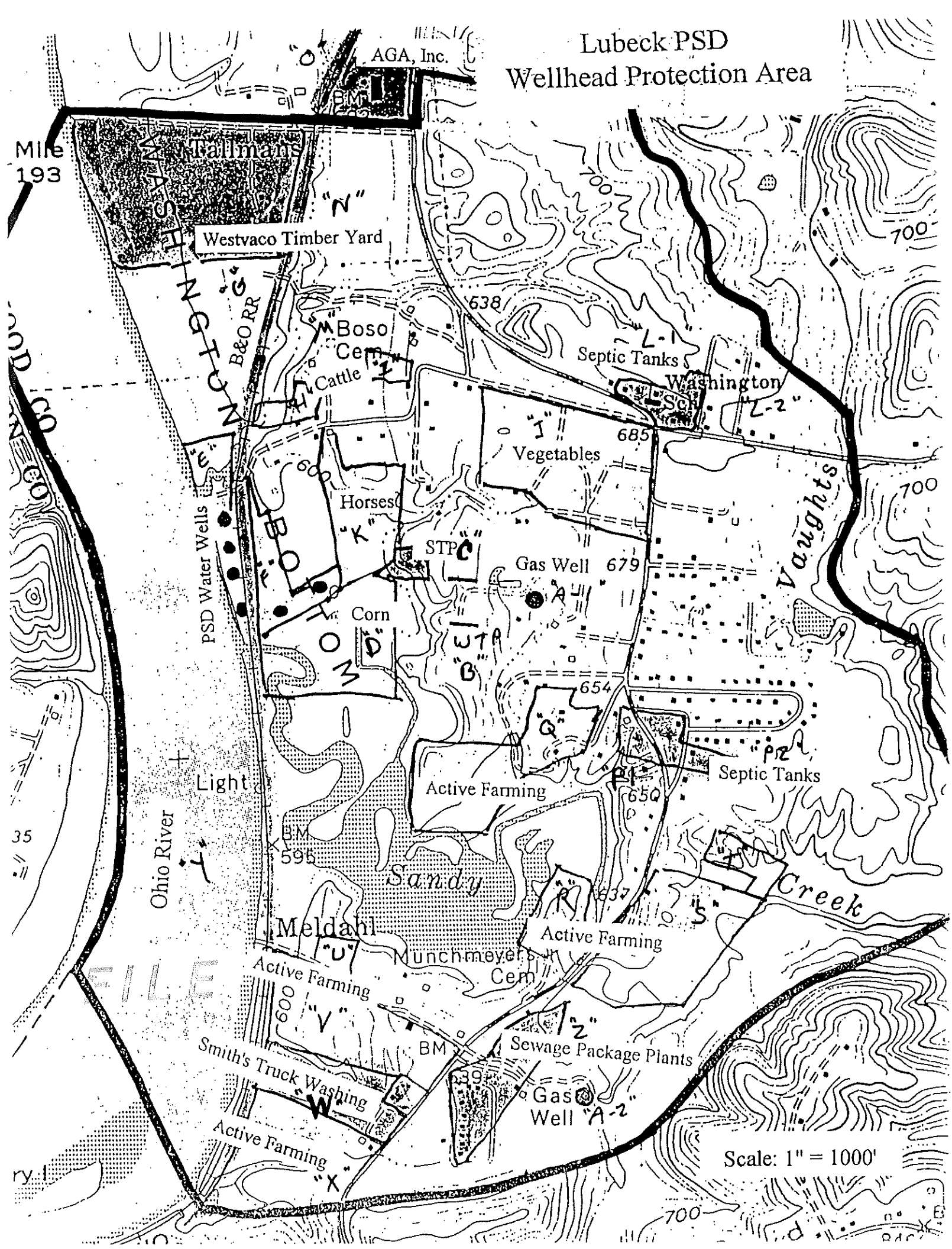
enclosure

FILE

BLIC SERVICE DISTRICT
PROTECTION PLAN
TION SURVEY

:M	PROPERTY MAP/TRACT NO.	PROPERTY OWNER	ACTIVITY	COMMENTS
	150/E	E. I. DUPONT C/O CRAIG DILLION PO BOX 1217 PARKERSBURG, WV 26101	GAS WELL	PLUGGED
	300/A3		GAS WELL	
	150/E-5	LUBECK PSD PO BOX 700 WASHINGTON, WV 26181	WATER TREATMENT PLANT	
	150/80	LUBECK PSD PO BOX 700 WASHINGTON, WV 26181	WASTEWATER PLANT	GPP DUE IN 2000
	150/E-4	RICHARD BUTCHER PO BOX 44 WASHINGTON, WV 26181	CORN PRODUCTION	BMP
	150/D-9	LUBECK PSD PO BOX 700 WASHINGTON, WV 26181	WATER WELLS	NO LONGER FARMED
	150/D	LUBECK PSD PO BOX 700 WASHINGTON, WV 26181	FORMER CORN PRODUCTION	NO LONGER FARMED
	N/A	B&O RAILROAD	TRANS. OF CHEMICALS, ETC.	NOW CSX
	150/C-8	ROBERT COLVIN 230 WALKER LANE WASHINGTON, WV 26181	CATTLE PRODUCTION	BMP
	150/C-1	RUTH COLVIN 230 WALKER LANE WASHINGTON, WV 26181	CATTLE PRODUCTION	BMP
	150/K	LAWRENCE RONNING 1915 DUDLEY AVENUE PARKERSBURG, WV 26101	VEGETABLE FARMING	BMP
	150/D-5	JARRETT L. NAY RT.#1, BOX 24 WASHINGTON, WV 26181	HORSE FARM	BMP
	150/B-1, B-3	WASHINGTON BOTTOM COMM. BLDG., ASSOC. PO BOX 14 WASHINGTON, WV 26181	SEPTIC TANKS	BMP

160/I-2	DAVID LAWSON RT.#2 BOX 1 WASHINGTON, WV 26181	PRE-SCHOOL & APTS. WITH SEPTIC TANK	BMP
150/C	ROBERT L. COLVIN 230 WALKER LANE WASHINGTON, WV 26181	BOSO CEMETARY	NO INTERMENTS FOR MANY YEARS
150/A-2	WESTVACO CORP. 300 PRATT ST. LUKE, MD. 21540	TIMBER YARD	GPP NOT NEEDED
100/H-2	AGA GAS, INC. 6055 ROCKSIDE WOODS BLV. CLEVELAND, OHIO 44131	GAS SEPERATION PLANT	NPDES PERMIT # WV 0001775
231/48,49	DAVID E. HIGGINS 612 WASHINGTON BLVD. BELPRE, OHIO 45714	APTS./WITH SEPTIC TANK	SEPTIC TO BE REPLACED WITH CENTRAL SEWER
230/J-1,J-2	CLIFFORD & IMA LYNCH 4418 - 12TH AVENUE PARKERSBURG, WV 26101	MOBILE HOME PARK WITH SEPTIC TANKS	TANKS TO BE REPLACED WITH CENTRAL SEWER
230/C,C-3	RICHARD & JO ELLEN BUTCHER RT.#1, BOX 82 WASHINGTON, WV 26181	ACTIVE FARMING	BMP
230/N	GEORGE & JO ANN KIRK RT.#1, BOX 132 WASHINGTON, WV 26181	ACTIVE FARMING	BMP
230/M,O-2	JOHN & BETTY WITTMAN RT.#1, BOX 127 A WASHINGTON, WV 26181	ACTIVE FARMING	BMP
230/L-14	SHERRY AMOS RT.#1, BOX 122A WASHINGTON, WV 26181	ACTIVE FARMING	BMP
230/D8-F	CLEMENT & BETTY JO DOWLER 6 RIVERVIEW ACRES WASHINGTON, WV 26181	ACTIVE FARMING	BMP
300/A	DAVID LAWSON PO BOX 114 WASHINGTON, WV 26181	ACTIVE FARMING	BMP
300/D-2	ROBERT & DEBRA SMITH RT.#2, BOX 358 WASHINGTON, WV 26181	CHEMICAL TANKER TRUCK CLEANING FACILITY	GPP REQUIRED
300/D-2A	JOSEPH & WANDA LANGFORD RT.#1, BOX 145-B WASHINGTON, WV 26181	ACTIVE FARMING	BMP
	STATE OF WV	OHIO RIVER'S BED PART OF AQUIFER	US ARMY CORPS OF ENG. ISSUES PERMITS
301/51A 302/8,8-A	LUBECK PSD PO BOX 700	SEWAGE PACKAGE PLANTS	TO BE REPLACED WITH CENTRAL SEWER


Lubeck PSD
Wellhead Protection Area
AGA, Inc.
Mile 193
Hallmans
Westvaco Timber Yard
WASHINGTON
B&O RR
Boso Cem
Cattle
638
Septic Tanks
Washington Sch
L-1
L-2
700
Vegetables
685
Horses
PSD Water Wells
STP
Gas Well
679
Vaughts
Corn
WTP
654
Active Farming
Septic Tanks
650
Light
Ohio River
BM
595
Sandy
Creek
637
Meldahl
Munchmeyers Cem
Active Farming
Smith's Truck Washing
Sewage Package Plants
BM
639
Gas Well A-2
Active Farming
Scale: 1" = 1000'

WEST VIRGINIA RURAL WATER ASSOCIATION

July 23, 1991

Mr. Gary Viola, PE
Environmental Engineering Division
Office of Environmental Health
Capitol Complex Bldg. 3, Room 550
Charleston, West Virginia 25305

Dear ~~Mr. Viola:~~ Gary

Enclosed is an application for the delineation of a wellhead protection area for Lubeck Public Service District.

The Lubeck PSD Board met on April 25, 1991 and voted to develop a wellhead protection plan for their new well field. They requested that WV Rural Water Association assist them in developing this plan.

Please contact me at 344-5593 if you have any questions on the application or need further information on the wells.

Sincerely,

Chet Fleming

Chet Fleming
Ground Water Technician

Encl.

FILE

P.O. BOX 225 • TEAYS, WEST VIRGINIA 25569 • TELEPHONE (304) 757-0985

Member of NATIONAL RURAL WATER ASSOCIATION

APPLICATION FOR WELLHEAD PROTECTION AREA DELINEATION

Name of Water System: LUBECK PUBLIC SERVICE DISTRICT

Mailing Address: POST OFFICE BOX 700

City, State & ZIP: WASHINGTON, WV 26181

Telephone Number: (304) 863-3341 PWSID #

Primary Contact: CHET FLEMING Tel. No. 757-0985

INSTRUCTIONS

A separate application shall be submitted for each well or group of wells located more than 500 feet from others wells to be protected. Complete a "Well Data Sheet" for each well covered by this form. Enclose a copy of any technical data available on each well. i.e Well Permit, Driller's Well Logs, Pumping Tests and Well Renovation Record. Attach a USGS 7.5' Topographical Map with each well marked on it with well identification shown.

GENERAL INFORMATION

County where well(s) are located: WOOD

Number of wells operated by system: SIX (6)

Number of wells, this application: SIX (6)

U.S. Geological Survey 7.5'Map Date, Sheet Name ~~& Number~~: 1975 LUBECK, WV - 014.0

Miscellaneous Information about this Application:

Mail completed application with attachments to:

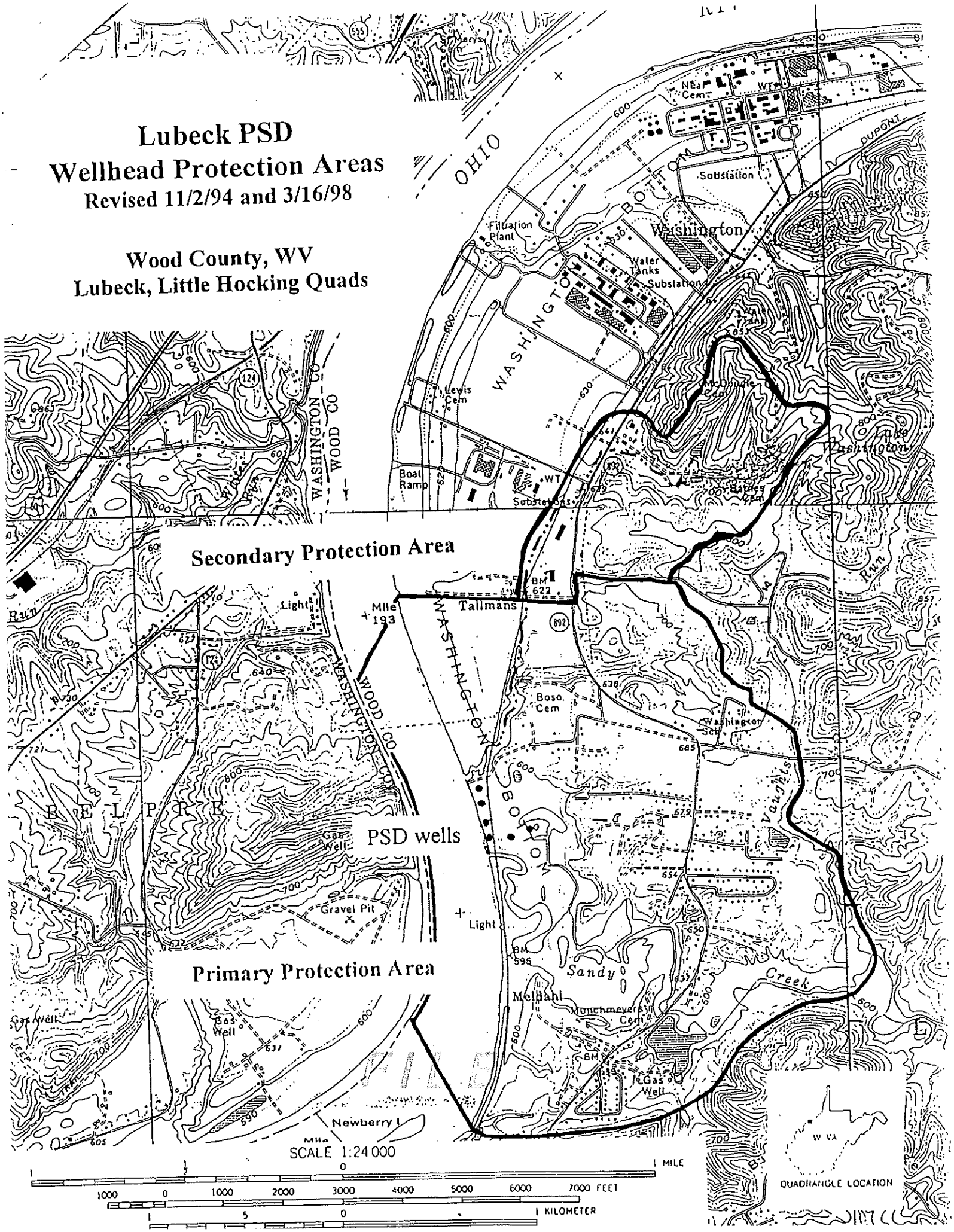
Office of Environmental Health Services
Environmental Engineering Division
Capitol Complex Bldg. 3, Rm. 550
Charleston, WV 25305

FILE

Encl. ____

Lubeck PSD
Wellhead Protection Areas
Revised 11/2/94 and 3/16/98

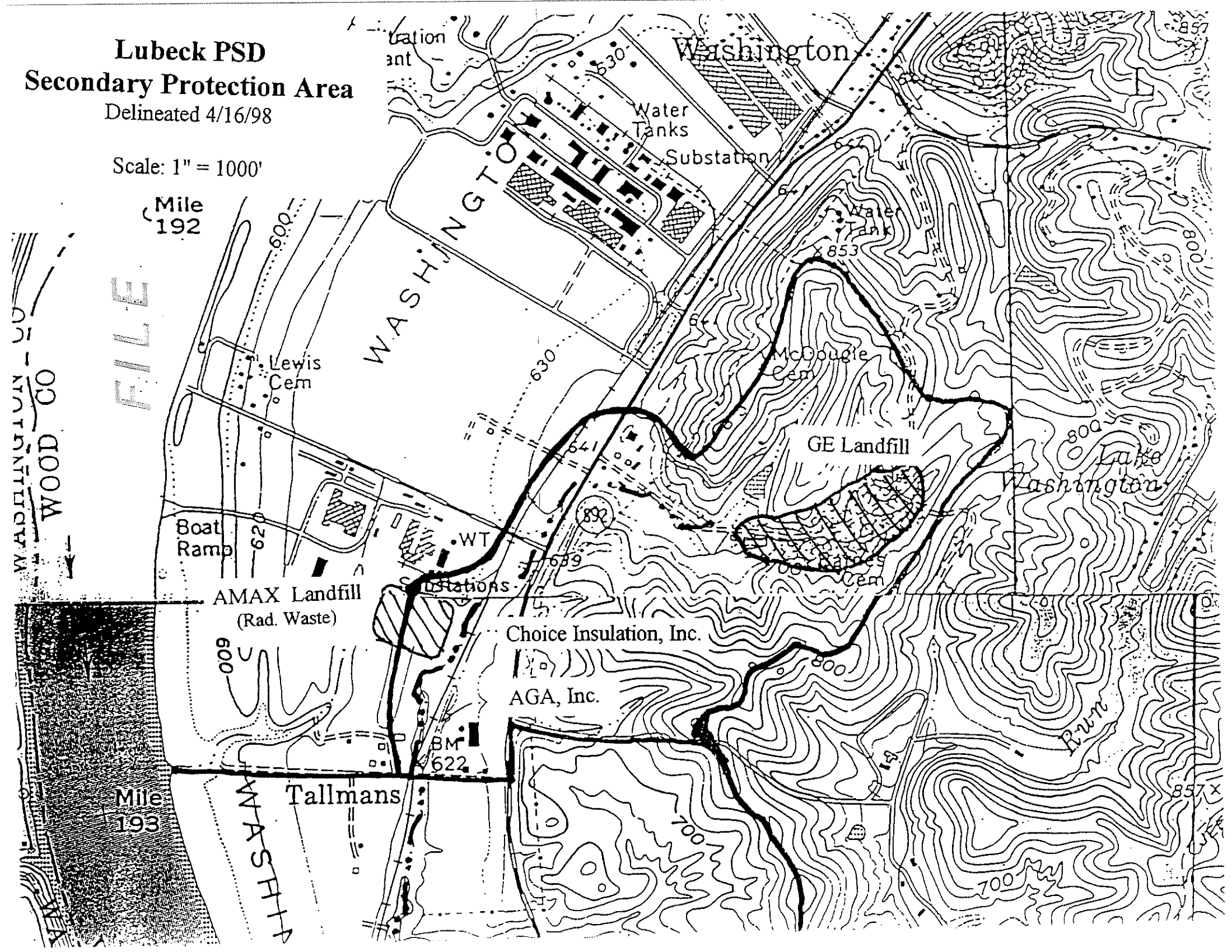
Wood County, WV
Lubeck, Little Hocking Quads



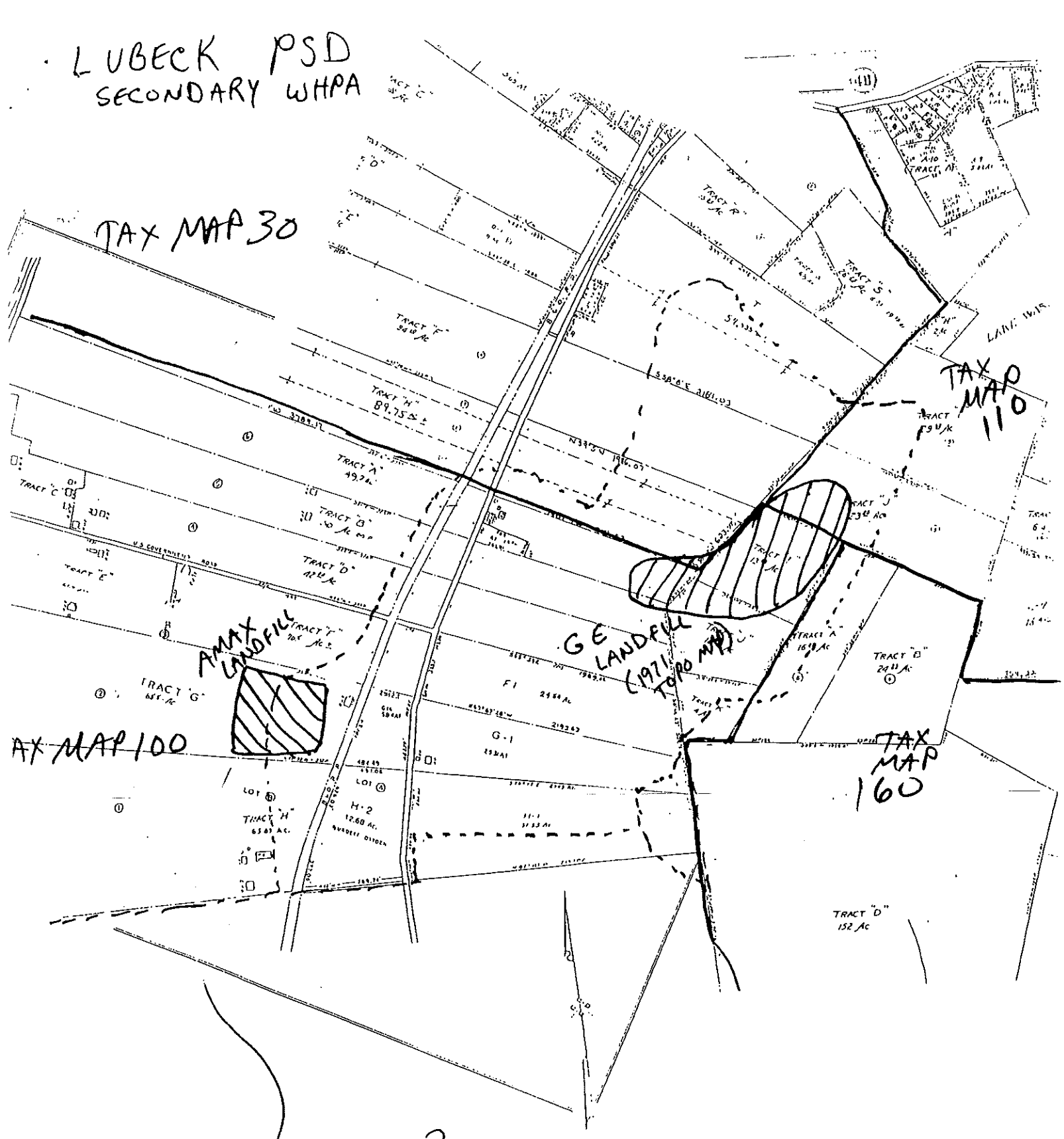
Lubeck PSD
Secondary Protection Area

Delineated 4/16/98

Scale: 1" = 1000'



LUBECK PSD
SECONDARY WHPA



Carbonex ?

Pre 1974 per Joe Gaston

Used to be L. B. Foster

Now Northwest Pipe

FILE

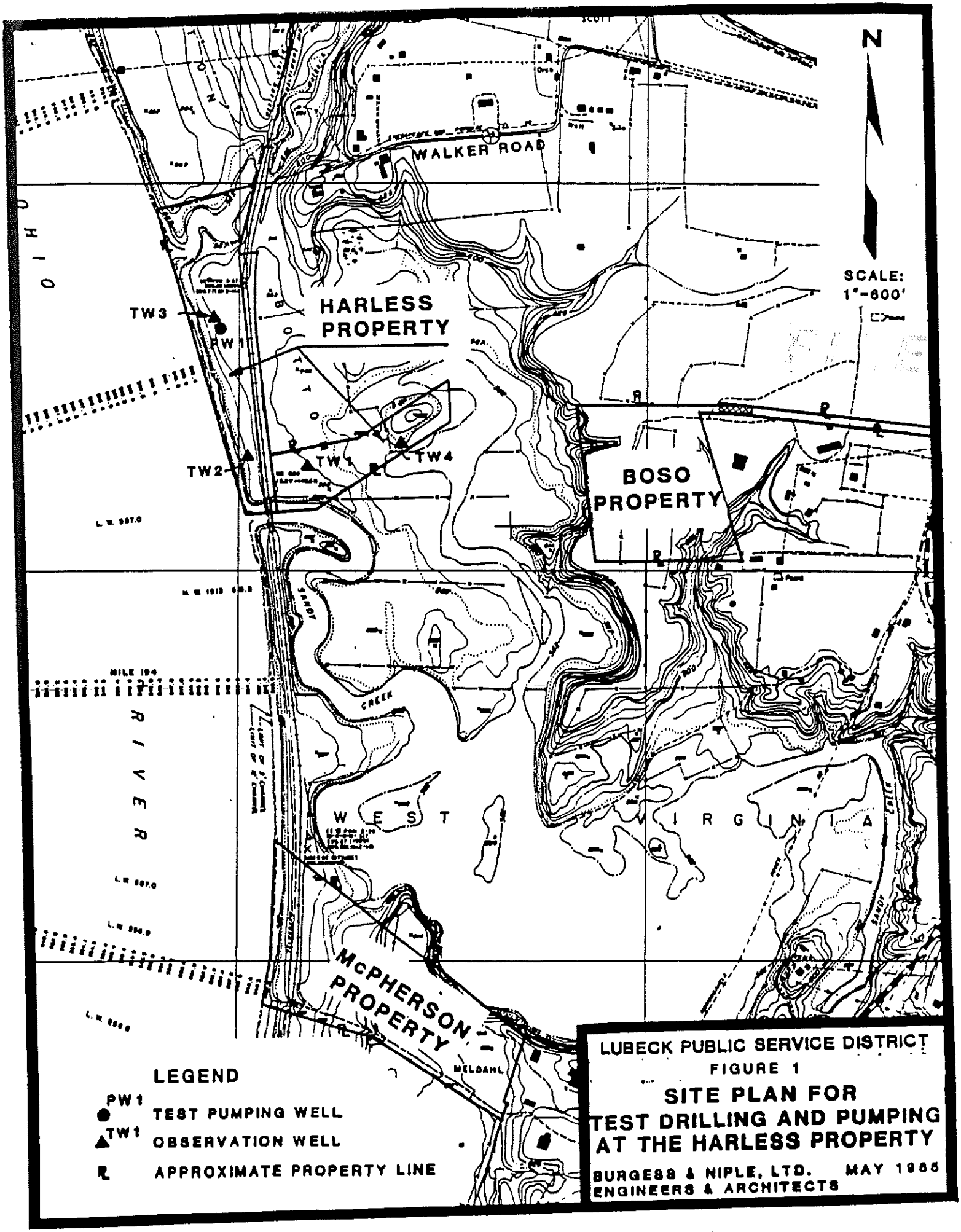
Lubeck Public Service District
Secondary Wellhead Protection Area

Map	Tract	Owner	Activity	Comments
100 100 100 110	A I J J	GE Plastics #1 Plastics Avenue Pittsfield, MA 01201	Industrial Waste Landfill	Appears on 1971 Topo Map Current Land Use listed as "Residential Vacant"
100	G	AMAX / L B Foster 415 Holiday Drive Pittsburgh, PA	Radioactive Waste Landfill	More recent than 1971 topo Current Land Use listed as "Inactive Farm"
100	G-1A	Choice Insulation c/o Nitro Industrial Coverings Route 1, Box 17 Washington, WV 26181		Land Use listed as "Office / Warehouse"
100	H-2	AGA Gas c/o Burdett Oxygen Co. PO Box 94737 Cleveland, OH 44101	Bottled Gases	Land Use listed as "Manufacturing / Processing"

FILE



10 MI.
4662 I SW
(LITTLE HOCKING)
BLENNERHASSET 3.4 MI.
40'
Tallmans
Mile 193
WASHINGTON
WOOD CO
Boso Cem
Washington Sch
BOTTOM
Gas Well
Gravel Pit
Light
Sandy
Creek
Meldahl
Munchmeyers Cem
Gas Well
Newberry
Vaughts
Run

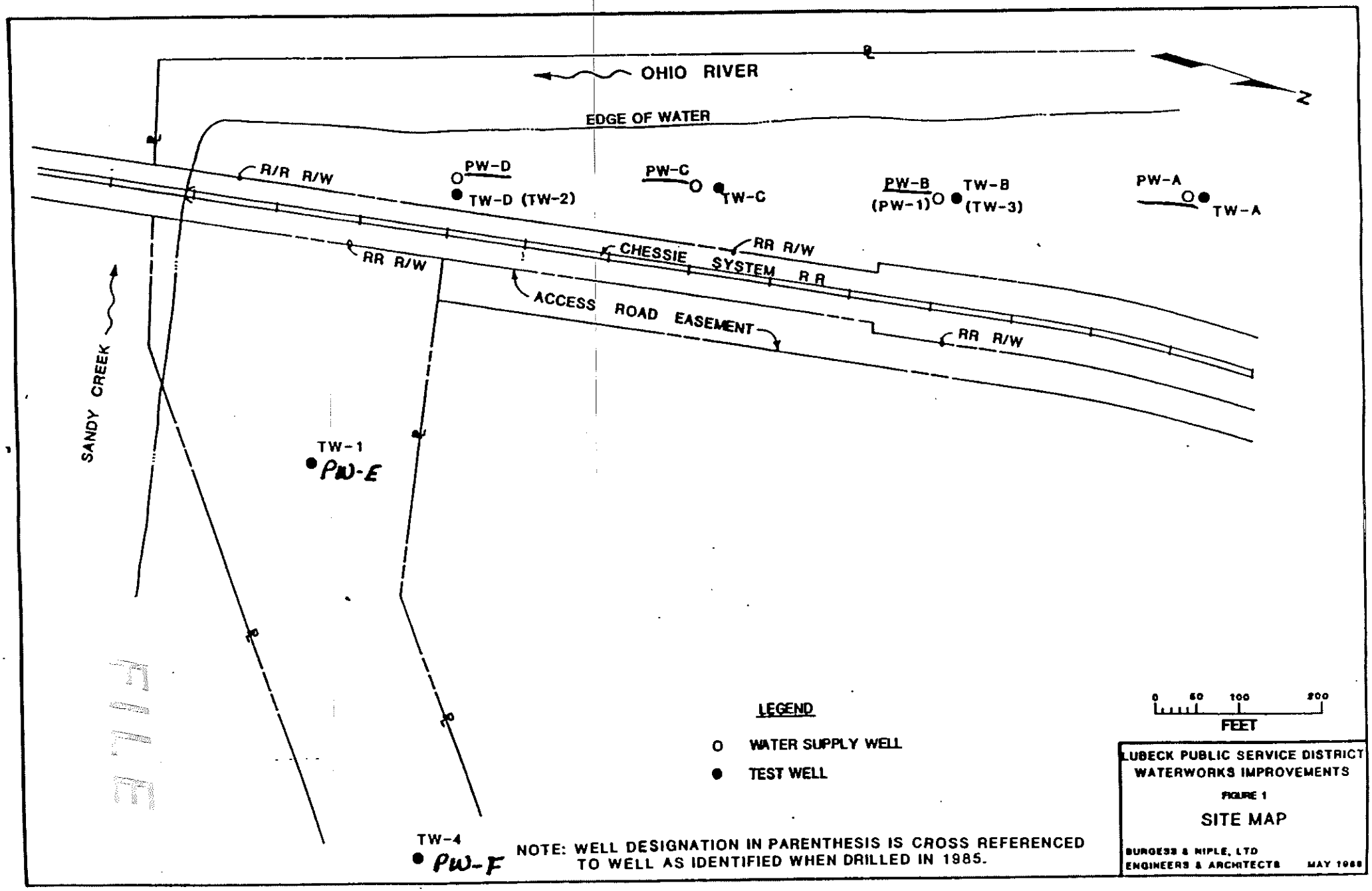


LUBECK PUBLIC SERVICE DISTRICT

FIGURE 1

SITE PLAN FOR TEST DRILLING AND PUMPING AT THE HARLESS PROPERTY

BURGESS & NIPLE, LTD. MAY 1985
ENGINEERS & ARCHITECTS



NOTE: WELL DESIGNATION IN PARENTHESIS IS CROSS REFERENCED TO WELL AS IDENTIFIED WHEN DRILLED IN 1985.

LUBECK PUBLIC SERVICE DISTRICT
WATERWORKS IMPROVEMENTS

FIGURE 1

SITE MAP

BURGESS & NIPLE, LTD
ENGINEERS & ARCHITECTS

MAY 1988

CONCLUSIONS

1. Three 12" x 26" gravel packed wells were drilled at the Sandy Creek well field as a part of this project. Total depth of the wells ranged between 62 to 67 feet. The wells are developed in sands and gravel immediately overlying the bedrock.

2. Screen lengths and slot sizes for the three new wells are as follows: PW-A, 15 feet of 75 slot; PW-C, 10 feet of 110 slot; and PW-D, 17 feet of 40 slot.

3. Variable rate step tests and 24-hour constant rate tests were conducted at each well. Evaluation of the data indicated the wells have the following safe capacities: PW-A, 375 gallons per minute (gpm); PW-C, 250 gpm; and PW-D, 250 gpm. These rates assume all three wells and existing well PW-B are operating simultaneously.

4. Total capacity of the four wells at the tested site is 1,250 gpm or 1.8 million gallons per day (mgd). This figure includes 375 gpm from existing well PW-B.

5. Lubeck's 1987 average daily water demand was 0.86 mgd while daily peak usage was as high as 1.26 mgd. Both of these flow rates can be supplied with two or three wells. Flow from wells PW-A and PW-C, and/or PW-B and PW-D, will equal 0.9 mgd. The capacity of three wells is 1.26 or 1.44 mgd depending upon if the third well has a capacity of 375 gpm or 250 gpm.

6. Both average daily and peak day water usage can be supplied with the largest capacity well at the site out of service. This will allow normal water usage even if an emergency outage occurs and/or well maintenance is required.

7. One water sample was collected and analyzed from each of the three new wells. Iron at PW-A, iron at PW-C, and iron and manganese at PW-D exceeded applicable Secondary U.S. Environmental Protection Agency (U.S. EPA) Drinking Water Standards. Analytical procedures used for mercury analyses at PW-C were insufficient to meet the drinking water

FILE

RECOMMENDATIONS

1. It is recommended, as water usage dictates, that wells PW-A, PW-C, and PW-D be equipped with submersible pumps and motors, similar to existing well PW-B. The total dynamic head (TDH) of the future pumps will likewise be similar to that of the pump in well PW-B, which has a head of 430 feet.

2. Wells PW-A and PW-C should be operated in unison, or wells PW-B and PW-D should be operated in unison, to meet average daily demand. The two well combinations should be operated for 1-week cycles. When daily peak usage occurs, the increased demand can be furnished using system storage and/or pumpage from a third well at the site.

TEST DRILLING AND SITE SPECIFIC GEOLOGY

Site specific geology was determined based on drillers' well logs and sieve analysis data. Drillers' well logs address subsurface conditions the full depth of unconsolidated materials. Subsurface conditions at each well are discussed below. Drillers' well logs, sieve data, and miscellaneous drillers' reports are shown in Appendix A. All wells installed as a part of this project were drilled with cable tool drilling equipment. The water supply wells were drilled as 26-inch diameter boreholes, while the test wells were drilled as 10-inch diameter boreholes.

Production Well PW-A

Test well TW-A was drilled in late January 1988 and production well PW-A was completed the following month. TW-A is approximately 16 feet north of PW-A. PW-A is 101 feet east of the Ohio River bank, 160 feet west of the railroad track, and roughly 300 feet north of PW-B. Subsurface conditions at the well based on the log for TW-A are described below:

0 to 1 foot - Topsoil
1 to 28 feet - Brown sandy clay
28 to 39 feet - Gray clay
39 to 46 feet - Clay and gravel
46 to 66.5 feet - Sand and gravel
66.5 feet - Bedrock

The total depth of test well TW-A is 66.5 feet with the screen set at 61.5 to 66.5 feet. The well is equipped with 6-inch diameter steel casing and 6-inch diameter polyvinyl chloride (PVC) screen. Static water level at the time of drilling was measured at 15 feet below the top of the casing.

The total depth of well PW-A is 66.5 feet with the screen set at 51.5 to 66.5 feet below ground. Thirty-three feet of 26-inch diameter steel casing, 51.5 feet of 12-inch diameter steel casing, and 15 feet of 12-inch diameter 75 slot stainless steel screen were installed at the well. The gravel pack consisted of 1/8" x 1/16" (No. 4) Parry quartz.

Particle size analysis was performed at TW-A on six soil samples collected from 39 feet to 66.5 feet. Gradation curves shown in Appendix A indicate that the sieved material is predominantly medium to coarse sand.

Production Well PW-C

TW-C was drilled in late October 1987 and PW-C was drilled in January 1988. TW-C is approximately 16 feet north of PW-C. PW-C is 81 feet east of the Ohio River, 127 feet west of the railroad track, approximately 300 feet north of PW-D, and roughly 300 feet south of PW-B.

Subsurface conditions at the well based on the log for TW-C are described below:

0 to 30 feet - Brown sandy clay
30 to 40 feet - Gray sandy clay
40 to 45 feet - Gray clay and gravel
45 to 62 feet - Medium to fine sand and gravel
62 feet - Bedrock

The total depth of test well TW-C is 62 feet with the screen set at 57 to 62 feet. The well is equipped with 6-inch diameter steel casing and 6-inch diameter PVC screen. Static water level in the well as measured at the completion of drilling was approximately 15 feet below the top of the casing.

The total depth of well PW-C is 62 feet with the screen set at 52 to 62 feet below ground. Fifty-two feet of 26-inch diameter steel casing, 52 feet of 12-inch diameter steel casing, and 10 feet of 12-inch diameter 110 slot stainless steel screen were installed at the well. The gravel pack consisted of 1/4" x 1/8" Parry quartz.

Grain size analysis was performed at TW-C on five soil samples collected from 55 to 62 feet. Analysis of the sieve data indicates that from 35 to 50 feet the formation is comprised of a high percentage of finer materials. The interval from 50 to 62 feet is predominantly medium sized materials or larger.

Production Well PW-D

Test hole TH-D was drilled in early November 1987 and PW-D was drilled in mid-November 1987. PW-D was drilled directly over TH-D and 15 feet west of existing TW-D. TW-D was drilled in 1985 and identified at that time as TW-2. PW-D is about 32 feet east of the Ohio River, 102 feet west of the railroad track, and approximately 300 feet south of PW-C.

Subsurface conditions at the site based on the log for TH-D is described below:

0 to 30 feet - Brown sandy clay
30 to 37 feet - Gray sandy clay
37 to 45 feet - Clay and gravel
45 to 49 feet - Medium to fine sand and gravel
49 to 53 feet - Gray sand
53 to 67 feet - Medium to fine sand and gravel
67 feet - Bedrock

The depth of test hole TH-D was 67 feet. No casing was installed at this test hole. Subsurface conditions and formation gradation at TH-D were similar to those noted at TW-2.

The total depth of well PW-D is 67 feet with the screen set at 50 to 67 feet below ground. Forty-two feet of 26-inch diameter steel casing, 50 feet of 12-inch diameter steel casing, and 17 feet of 12-inch diameter 40 slot stainless steel screen were installed at the well. The gravel pack consisted of No. 10 x 20 (No. 5) Parry quartz.

Grain size analysis was performed at TH-D on 10 samples collected from 35 to 67 feet. Analysis indicates the interval generally between 35 and 53 feet is comprised of a high percentage of finer materials. The remaining lower portion of the aquifer is somewhat more coarse, although this zone also contains a relatively high percentage of fine materials. Subsurface conditions at PW-D are much finer than at the other developed water supply well sites in the Sandy Creek well field.

PUMPING TESTS

For evaluation of aquifer characteristics and well performance, two separate pumping tests, a constant rate and a variable rate pumping test, were conducted at PW-A, PW-C, and PW-D.

Automatic Stevens' recorders, pressure transducer recorders, and battery powered water level indicators were used to measure water levels during the pumping tests. Data obtained from the constant rate tests were analyzed by Jacobs' (1945) distance-drawdown method to evaluate aquifer characteristics.

During the pumping tests, the Ohio River stage was measured. The river stage throughout all the tests varied approximately 1.5 feet. This is an insignificant fluctuation and did not affect groundwater levels during the pumping tests. The hydrograph for the river is shown in Appendix E.

Elevations were determined for supply wells and test wells at the site based on U.S. Geodetic Survey (USGS) datum. Groundwater levels discussed in this section are based on actual elevations. Surveyed elevations are shown below:

Location	Top of Casing Elevation	Ground Elevation
PW-A	596.76	595.8
PW-C	597.28	596.3
PW-D	598.81	597.8
TW-A	597.06	595.1
TW-B	597.37	595.3
TW-C	595.85	593.9
TW-D	598.15	596.2
TW-1	593.87	592.0
TW-4	597.21	595.5

Test pumping conducted at each well is discussed below.

Production Well PW-A

The first pumping test conducted at PW-A on March 8, 1988 was a four-step variable rate test. Pumping started at 7:45 a.m. and was terminated by 1:45 p.m. the same day. The well was pumped sequentially at rates of 305 gpm, 449 gpm, 663 gpm, and 738 gpm. The duration of each pumping step was 90 minutes each. The static water level at PW-A prior to pumping was measured at 583 feet. During the test, water level measurements were monitored at the pumping well and wells TW-A, TW-B, TW-C, TW-D, and TW-1. Hydrographs for these wells are shown in Appendix B. Observation of the step test hydrograph at PW-A shows that after each pumping increment, the water level stabilizes in a short time.

The second test performed was a 24-hour constant rate test during which PW-A was pumped at 600 gpm. Pumping started at 5:45 p.m. on March 8, 1988 and continued until 5:51 p.m. the next day. The static water elevation at PW-A prior to pumping was measured at approximately 583 feet. During the test, water levels in wells TW-A, TW-B, TW-C, TW-D, TW-1, and pumping well PW-A were monitored. Hydrographs of the pumping and observation wells are given in Appendix B. Observation of the constant rate hydrograph for PW-A indicates that the drawdown stabilized quickly after pumping began. Distance-drawdown analysis for PW-A was performed by analyzing drawdown data collected at the end of the test. Distance-drawdown analysis indicates that the transmissivity value was approximately 41,000 gallons per day per foot (gpd/ft). The storage coefficient was 0.0026. The specific capacity of PW-A was roughly 22 gallons per minute per foot of drawdown (gpm/ft dd). Water level in the pumping well rose to the static level after 1 hour of termination of pumping.

Production Well PW-C

The first test at PW-C was a six-step variable rate pumping test conducted on March 14, 1988. Pumping started at 2:18 p.m. and terminated at 7:30 p.m. The first five steps were pumped at 200, 300, 402, 506, and 550 gpm for durations of approximately 60 minutes each. The final step at 600 gpm was maintained for approximately 15 minutes at which time the test was discontinued to prevent the pump from breaking suction. The static water elevation at PW-C, measured prior to pumping, was approximately 580 feet.

During the test, water levels were monitored at PW-C and observation well TW-C. Hydrographs generated during the course of testing at PW-C are given in Appendix C. Observation of the step test hydrograph for PW-C indicates that after each pumping rate water levels stabilized quickly.

The second test performed was the 24-hour constant rate test during which PW-C was pumped at 500 gpm. Pumping started at 9:32 a.m. on March 15, 1988 and terminated at 9:32 a.m. on March 16, 1988. The static water elevation prior to pumping was measured at approximately 581 feet. Groundwater levels in the pumping well and wells TW-A, TW-B, TW-C, TW-D, TW-1, and TW-4 were monitored during the test. Hydrographs for the wells are shown in Appendix C. The hydrograph for the constant rate test indicates that drawdown at PW-C stabilized quickly after pumping began. Distance-drawdown analysis for PW-C was performed by analyzing drawdown data collected at the end of the test. The data indicates the transmissivity value was approximately 32,000 gpd/ft. The storage coefficient was 0.0021 and the specific capacity at the end of the test was roughly 17 gpm/ft dd. Water level in the pumping well rose to approximately 2 feet of the prepumping level within 2 hours after cessation of pumping.

Production Well PW-D

A six-step variable rate pumping test was conducted at PW-D on March 17, 1988. The pumping started at 8:15 a.m. and terminated at 2:15 p.m. the same day. The well was pumped at 150, 226, 302, 377, 450, and 528 gpm for a duration of 60 minutes each. Static water elevation at PW-D measured prior to pumping was 581 feet. During the course of the test, water levels were monitored in PW-D, TW-A, TW-B, TW-D, TW-1, and TW-4. Hydrographs generated at these wells during the test are given in Appendix D. As can be seen on the hydrograph for PW-D, the water level stabilized during each step.

The second test was a 24-hour constant rate test which began on March 21, 1988, with continuous pumping at 400 gpm. Pumping started at 10:30 a.m. and continued until 10:36 a.m. the following day. Prior to the test, the static water elevation at PW-D was measured at 581 feet. During the test, water level elevations were measured at PW-D, TW-A, TW-B, TW-D, TW-1, and TW-4. Hydrographs for the pumping wells and observation wells are shown in

Appendix D. The constant rate test hydrograph for PW-D indicates that the water level in the pumping well stabilized quickly after pumping began. Distance-drawdown analysis for PW-D was performed on the drawdown data obtained at the end of the test. Analysis indicates that the calculated transmissivity at PW-D was 26,000 gpd/ft. The storage coefficient was 0.0046 and the specific capacity at the end of the test was approximately 14 gpm/ft dd. Water level in the pumping well rose to approximately 1 foot of the prepumping level within 1 hour after cessation of pumping.

RAW WATER SAFE YIELD OF SANDY CREEK WELL FIELD

Based on pumping tests conducted at PW-A, PW-C, and PW-D, the raw water safe yield of each well has been calculated. In determining well capacities, it was assumed that all three newly drilled wells and existing well PW-B would operate simultaneously. It was also assumed that the four wells would pump continuously for a 7-day period with no aquifer recharge. Given this design criteria, well capacities were calculated so that the water level within each well would remain at a safe level above the top of the well screen. Shown below are calculated safe yields of the four wells at the site. It is recommended that the permanent pumps at wells PW-A, PW-C, and PW-D are sized as shown.

Well	Capacity in gpm
PW-A	375
PW-B (Existing)	375
PW-C	250
PW-D	250
Total	1,250 gpm or 1.8 mgd

As can be seen on the above table, the safe yield of the four wells is 1.8 mgd. If the wells are operated in a manner differently than assumed, i.e., less than four wells pumping simultaneously, the safe yield per well will be somewhat greater. However, it is not recommended to install permanent pumps in the wells with capacities greater than those shown above. By doing this, the wells can be operated simultaneously if the need arises, while maintaining safe groundwater levels in the wells.

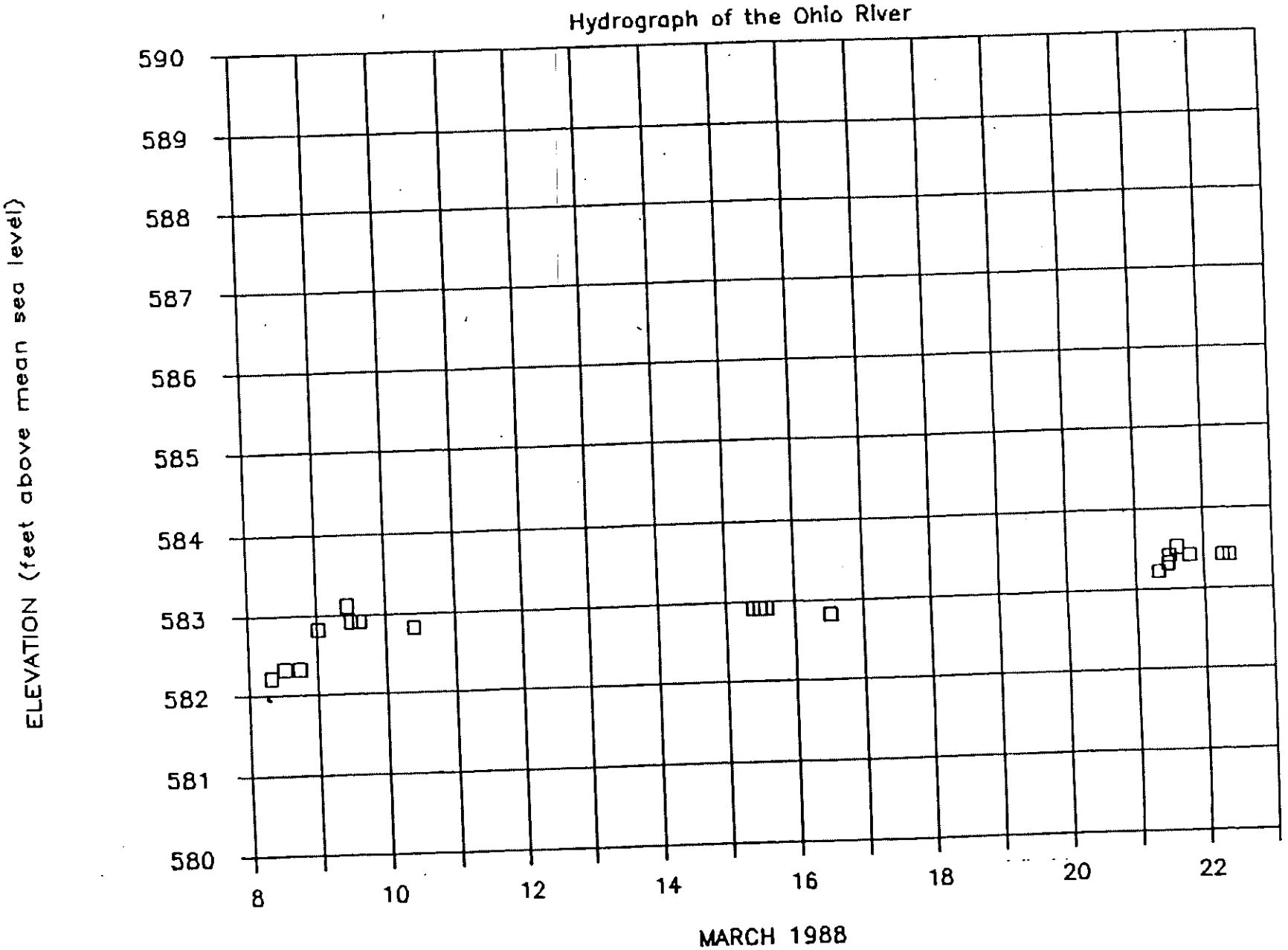
The above noted capacities are somewhat different than those estimated in a 1985 report entitled "Test Drilling and Test Pumping at Harless, Boso, and McPherson Properties," prepared by Burgess & Niple, Limited. In the 1985 report, flows at PW-C and PW-D were estimated at 350 gpm and 375 gpm, respectively. The lower flows recommended as a result of this study are primarily due to greater pumping interferences than earlier anticipated.

WELL FIELD CAPACITY COMPARED TO WATER USAGE

According to Lubeck Public Service District sources, the 1987 average daily water usage was 0.86 mgd, while peak demand was as high as 1.26 mgd. These demands can be met using two or three well combinations at the Sandy Creek well field. Average demand can be supplied by pumping wells PW-A and PW-C, or PW-B and PW-D. Capacity from both of these combinations will equal 0.9 mgd. This flow is greater than the 1987 average daily demand. Peak demand can be met using system storage and/or pumping a third well. Pumpage from three wells will total 1.26 or 1.44 mgd depending upon which well is used. These flows are likewise greater than 1987 peak usage.

Recommended well field operating procedures are to be able to meet peak daily water demand with the largest capacity well out of service. In this manner, emergency loss of pumpage and/or normal well maintenance will not affect the capability of meeting peak water demands. With four wells at the Sandy Creek well field, Lubeck can meet peak flows with one of the 375-gpm wells out of service.

Since average water usage can be supplied using one 375-gpm well and one 250-gpm well, it is recommended that the well field be operated in this manner. Therefore, PW-A and PW-C should operate in unison, while PW-B and PW-D should operate together. This procedure will also further minimize pumping interferences, as adjacent wells will not operate simultaneously.


Hydrograph of the Ohio River
590
589
588
587
586
585
584
583
582
581
580
ELEVATION (feet above mean sea level)
8
10
12
14
16
18
20
22
MARCH 1988

Wellhead Protection Area
Delineation Application
Attachment.

DATE: July 22, 1991

WELL DATA SHEET
sheet 1 of 6 sheets

Water System: LUBECK PSD

Well Identification: PW-A

Location: Latitude: N 39°31'42"

Longitude: W 81°41'12"

Date Drilled: JAN 1988

Depth of Well: 66.5 Ft

Well Casing: Diameter: 12 IN Length: 51.5 Ft.

Grouting: Yes: ✓ No: ✓ Depth: 15 Ft.

Screen: Diameter: 12 IN Length: 15 Ft.

Location in Well: 51.5 Ft Slot Size: 75

Surface Elevation at Wellhead: 595.8 Ft

Static Water Elevation in Well: 583.0 Ft

Pumping Water Elevation in Well: 566.0 Ft

Recovery Time in Minutes: 60 MIN

Maximum Pumping Rate: 375 GPM

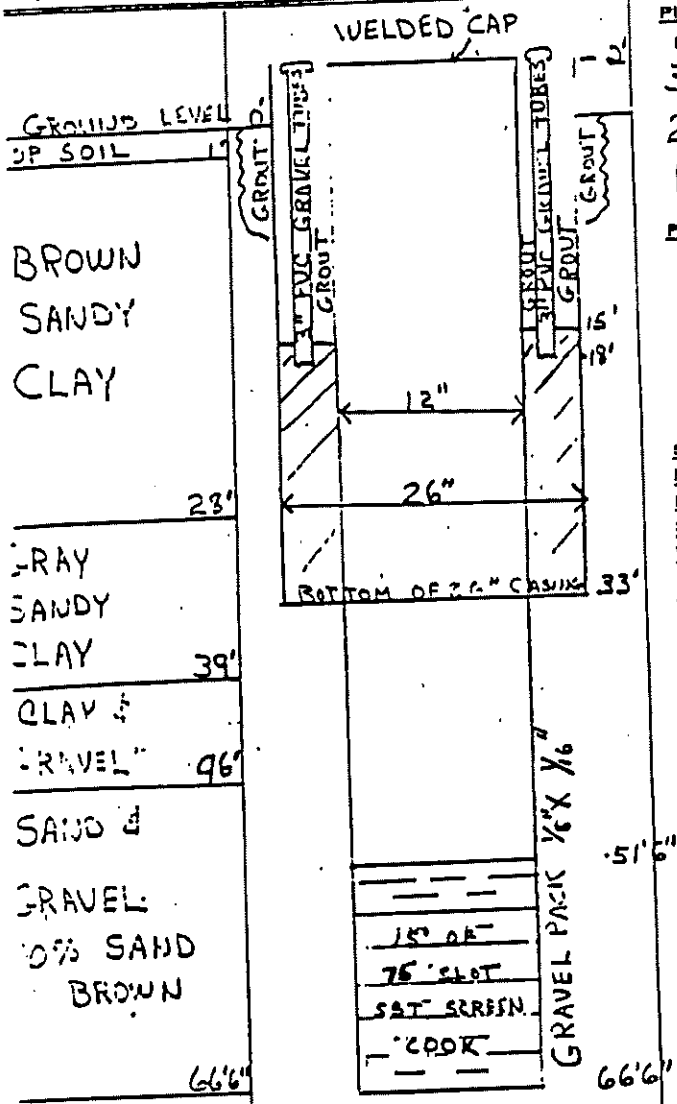
Average Gallons Pumped: 270,000 GPD

Miscellaneous Well Data: PWA IS LOCATED 101 FEET EAST OF THE OHIO RIVER BANK AND 160 FEET WEST OF THE RAILROAD TRACK. PW-B IS 300 FEET TO THE SOUTH.
TRANSMISSIVITY = 41,000 GPD/Ft - STORAGE COEFFICIENT = 0.0026 - CAP. = 22 GPM/Ft dd

HYDRO GROUP
DRILLERS REPORT

WELL PW A

JOB No. 7051 | DRILLER HYDRO GROUP | CUSTOMER WELL No. A
CUSTOMER LUBECK PSD | WELL No. HYDRO GROUP #3
WELL LOCATION WASHINGTON WV VA. | STATE PERMIT No.
FORMATION | SKETCH OF SETTING | REMARKS



PIPE SET:

DIA.	WALL	LGTH.	MATL.	T & C OR WELDED
30"	1/2"	10'		WELDED
26"		66'6"		WELDED
12"		62'6"		WELDED

PIPE LEFT IN PLACE:

DIA.	WALL	LGTH.	MATL.	T & C OR WELDED
26"		35'		WELDED
12"		68'6"		WELDED

SCREEN: NOM. SIZE | I. D. 12" | LGTH. 15' | OPNG. 70
MFG. COOK | TYPE | METAL SST | GA. No.
SET IN MED TO FINE SAND & GRAVEL | FORMATION
WELL UNDERREAMED TO | DIAMETER

MISCELLANEOUS: R & L BACK OFF | CUT OFF | PACKER TYPE

CONE: DIA. TOP | DIA. BOTT. | LGTH. | MTL.

PLUG: DIA. | LGTH. | MTL.

GRAVEL: AMT. 10 TON ? | SIZE 1/8" X 1/16"
CLAY: BAGS PWDR. REG. | BAGS CLAY

CEMENT: BAGS USED 8 | YDS. CONCRETE
SEAL: CLAY | CEMENT | LGTH.

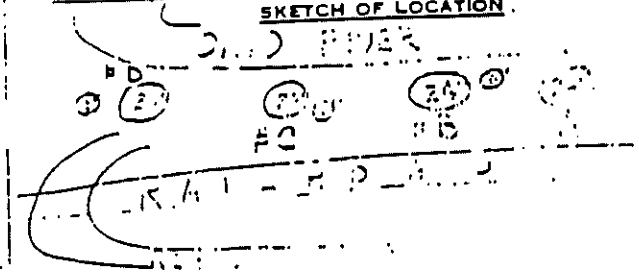
METHOD OF DRILLING:
☐ STD. ROT. ☐ REV. ROT. ☒ CABLE TOOL ☐ AIR ROT.
☐ OTHER

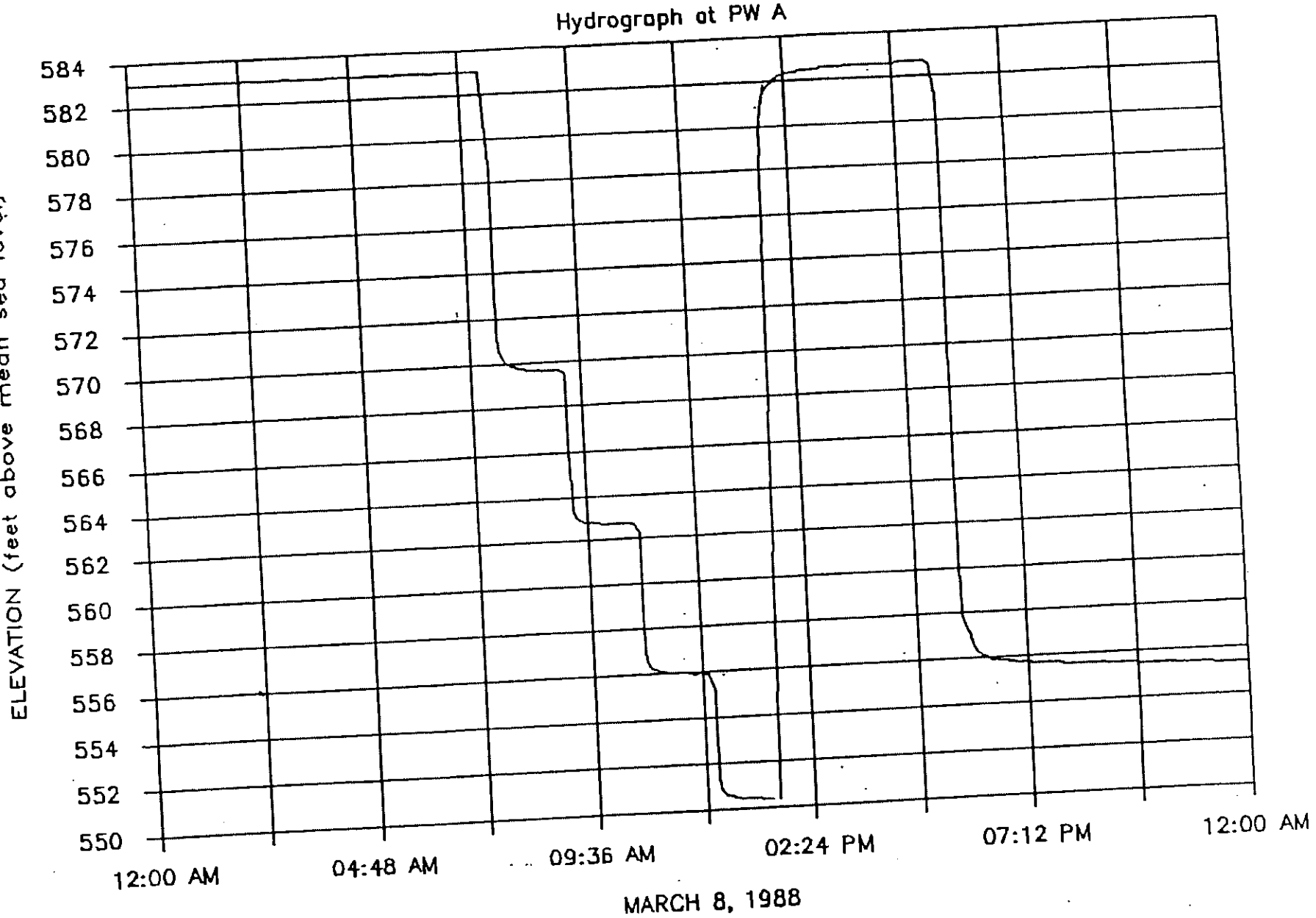
MEASUREMENTS:
GROUND ELEV. | ABOVE SEA LEVEL
DEPTH OF WELL AFTER PLUG 66'6" | DEPTH TO GRAVEL WALL 15' | FROM ☐ GRD. LEV. ☐ TOP OF ____ CASH ☒ ORIG. GRD. LEV.

MISCELLANEOUS:
DATE WORK STARTED 2-04-97 | DATE FIRST PUMPED 3-07-97
DID WELL CLEAR UP YES | HOW SOON 5 MIN.
WAS SAND PUMPED NO | HOW LONG
HOW LONG AGITATED 13 HRS | HOW LONG PUMPED 32 HRS
CHEM. USED TO DEVELOP | SAMPLE TAKEN YES

PRELIMINARY TEST DATA:
STATIC LEVEL 15' | DATE 3-08-97 | WATER TEMP.
CAPACITY 700 | GPM WITH 43' | PUMPING LEVEL

SKETCH OF LOCATION




Hydrograph at PW A
ELEVATION (feet above mean sea level)
584
582
580
578
576
574
572
570
568
566
564
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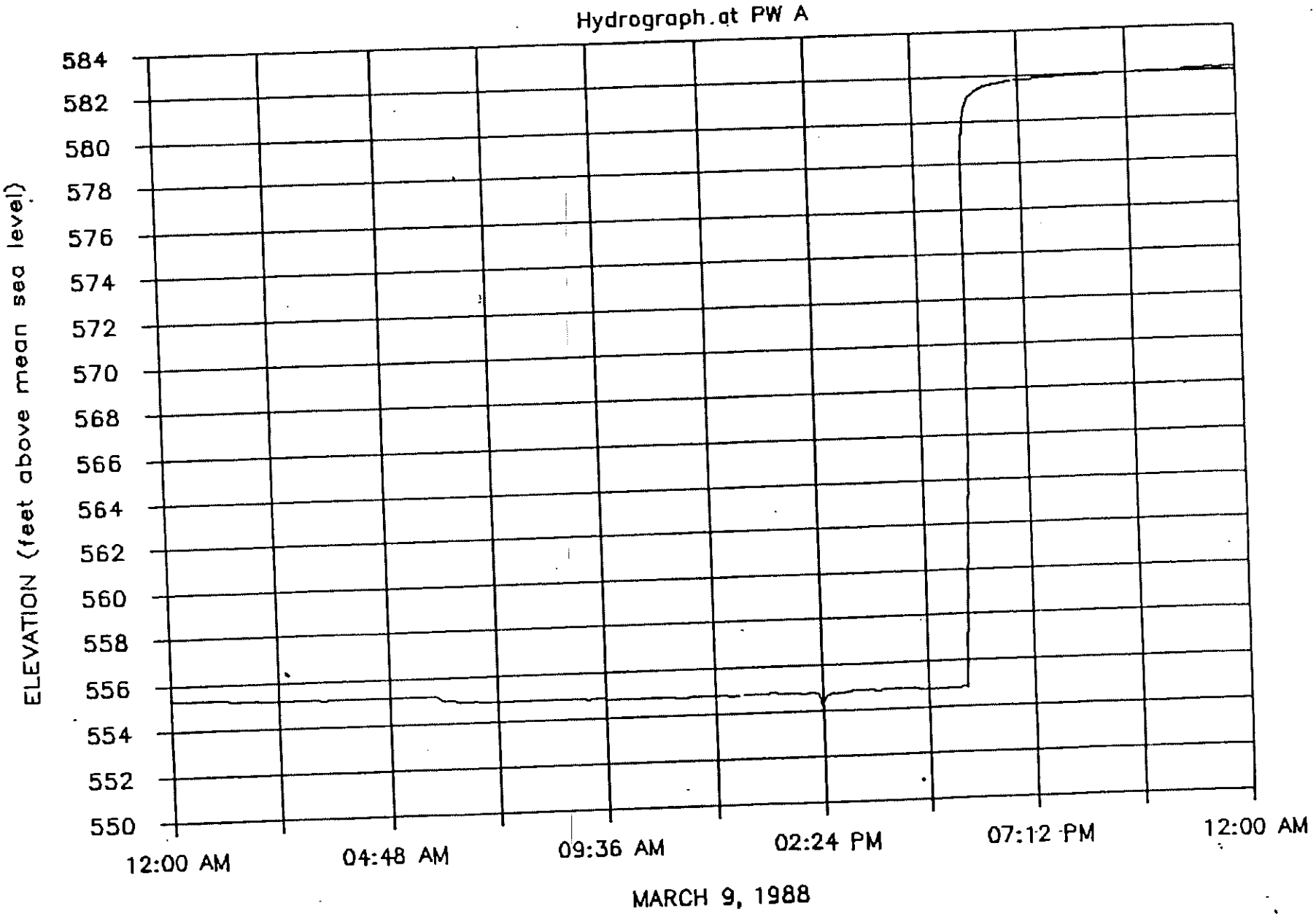
MARCH 8, 1988


Hydrograph at PW A
ELEVATION (feet above mean sea level)
584
582
580
578
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566
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562
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558
556
554
552
550
12:00 AM
04:48 AM
09:36 AM
02:24 PM
07:12 PM
12:00 AM
MARCH 9, 1988

Wellhead Protection Area
Delineation Application
Attachment.

DATE: JULY 22, 1991

WELL DATA SHEET
sheet 2 of 6 sheets

Water System: LUBECK PSD

Well Identification: PW-B

Location: Latitude: N 39° 31' 40"

Longitude: W 81° 41' 13"

Date Drilled: APRIL 1985

Depth of Well: 65 Ft

Well Casing: Diameter: 12 IN Length: 50 Ft

Grouting: ? Yes: ~~✓~~ No: ~~✓~~ Depth: ?

Screen: Diameter: 12 IN Length: 15 Ft

Location in Well: 50-65 Ft Slot Size: 80

Surface Elevation at Wellhead: 595.3 Ft

Static Water Elevation in Well:

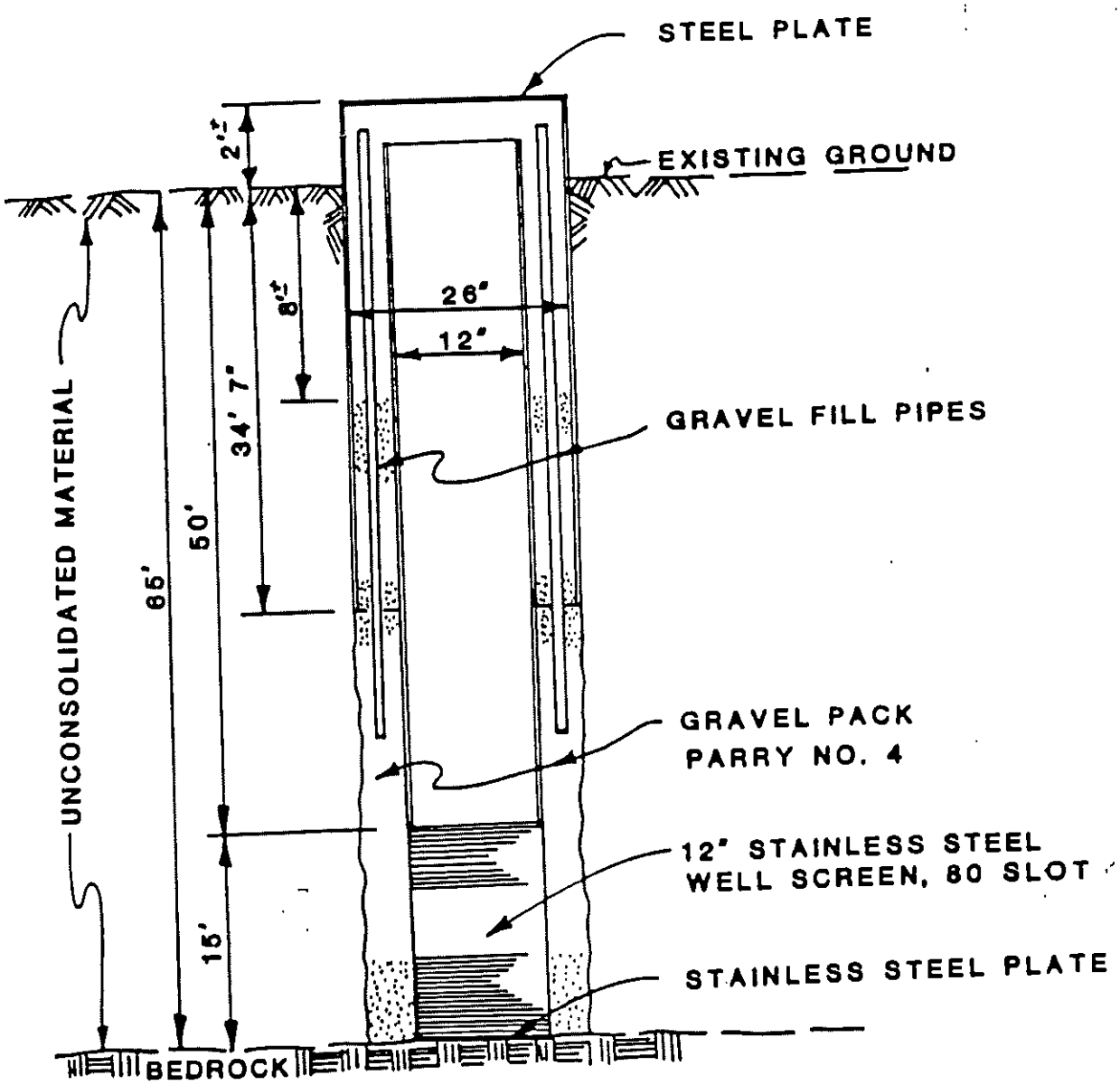
Pumping Water Elevation in Well:

Recovery Time in Minutes:

Maximum Pumping Rate: 375 GPM

Average Gallons Pumped: 270,000 GPD

Miscellaneous Well Data:



WELL DESIGNATION: LUBECK PSD PW-1

LOCATION: 20' SOUTH OF TW-3

DATE DRILLED: APRIL, 1985

DRILLER: REYNOLDS SUPPLY INC.

STATIC WATER LEVEL: 14.5' (TAKEN APRIL 22, 1985)

Wellhead Protection Area
Delineation Application
Attachment.

DATE: JULY 22, 1991

WELL DATA SHEET
sheet 3 of 6 sheets

Water System: LUBECK PSD

Well Identification: PW-C

Location: Latitude: N 39°31'37"

Longitude: W 81°41'13"

Date Drilled: OCTOBER 1987

Depth of Well: 62 Ft

Well Casing: Diameter: 12 IN Length: 52 Ft

Grouting: Yes: ✓ No: 0 Depth: 15Ft

Screen: SS Diameter: 12 IN Length: 10 Ft

Location in Well: 52-62 Ft Slot Size: 110

Surface Elevation at Wellhead: 596.3 Ft

Static Water Elevation in Well: 581.0 Ft

Pumping Water Elevation in Well: 566.3 Ft

Recovery Time in Minutes: >160 MINUTES

Maximum Pumping Rate: 250 GPM

Average Gallons Pumped: 185,000 GPD

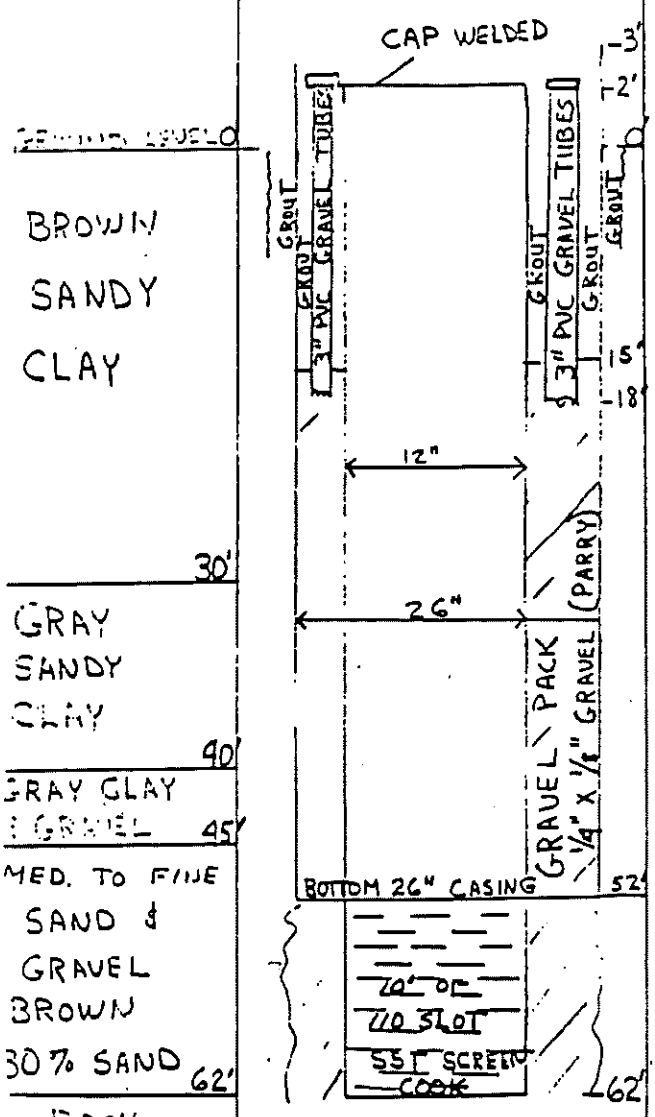
Miscellaneous Well Data: LOCATED 81Ft EAST OF THE OHIO RIVER, 127 Ft WEST OF THE RAILROAD TRACK, 300 Ft SOUTH OF PW-B & 300 Ft NORTH OF PW-D. WILL BE PUMPED AT SAME TIME AS PW-A. TRANSMISSIVITY = 32,000 GPD/FT, STORAGE COEFFICIENT = 0.0021 AND SPECIFIC CAPACITY = 17 GPM/Ft dd.

HYDRO GROUP
DRILLERS REPORT

WELL PW C

JOB No. 7051 DRILLER HYDRO GROUP CUSTOMER WELL No. C
CUSTOMER LUBECK PSD WELL No. HYDRO GROUP #
WELL LOCATION WASHINGTON W. VA STATE PERMIT No.

FORMATION SKETCH OF SETTING REMARKS



PIPE SET:

DIA.	WALL	LGTH.	MATL.	T & WE.
30"	1/2"	10'		WE
26"		62'		WE
12"		64'10"		WE

PIPE LEFT IN PLACE:

DIA.	WALL	LGTH.	MATL.	T & WE.
26"		55'		WE
12"		64'10"		WE

SCREEN:
NOM. SIZE I.D. 12 LGTH. 10' OPNG. 1
MFG. COOK TYPE METAL SST GA. No.
SET IN MED. TO FINE SAND & GRAVEL BROWN FORMATION
WELL UNDEREAMED TO DIAMETER

MISCELLANEOUS:
R & L BACK OFF CUT OFF PACKER TYPE

CONE:
DIA. TOP DIA. BOTT. LGTH. MTL.

PLUG:
DIA. LGTH. MTL.

GRAVEL: AMT. 10 TON ? SIZE 1/4" x 1/8"
CLAY: BAGS PWDR. REG. BAGS CLAY

CEMENT: BAGS USED 8 YDS. CONCRETE
SEAL: CLAY CEMENT LGTH.

METHOD OF DRILLING:
☐ STD. ROT. ☐ REV. ROT. ☒ CABLE TOOL ☐ AIR ROT
☐ OTHER

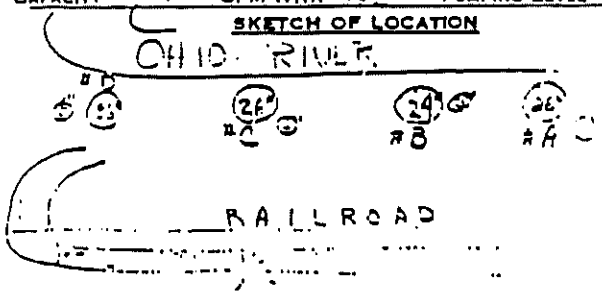
MEASUREMENTS:
GROUND ELEV. ABOVE SEA LEVEL

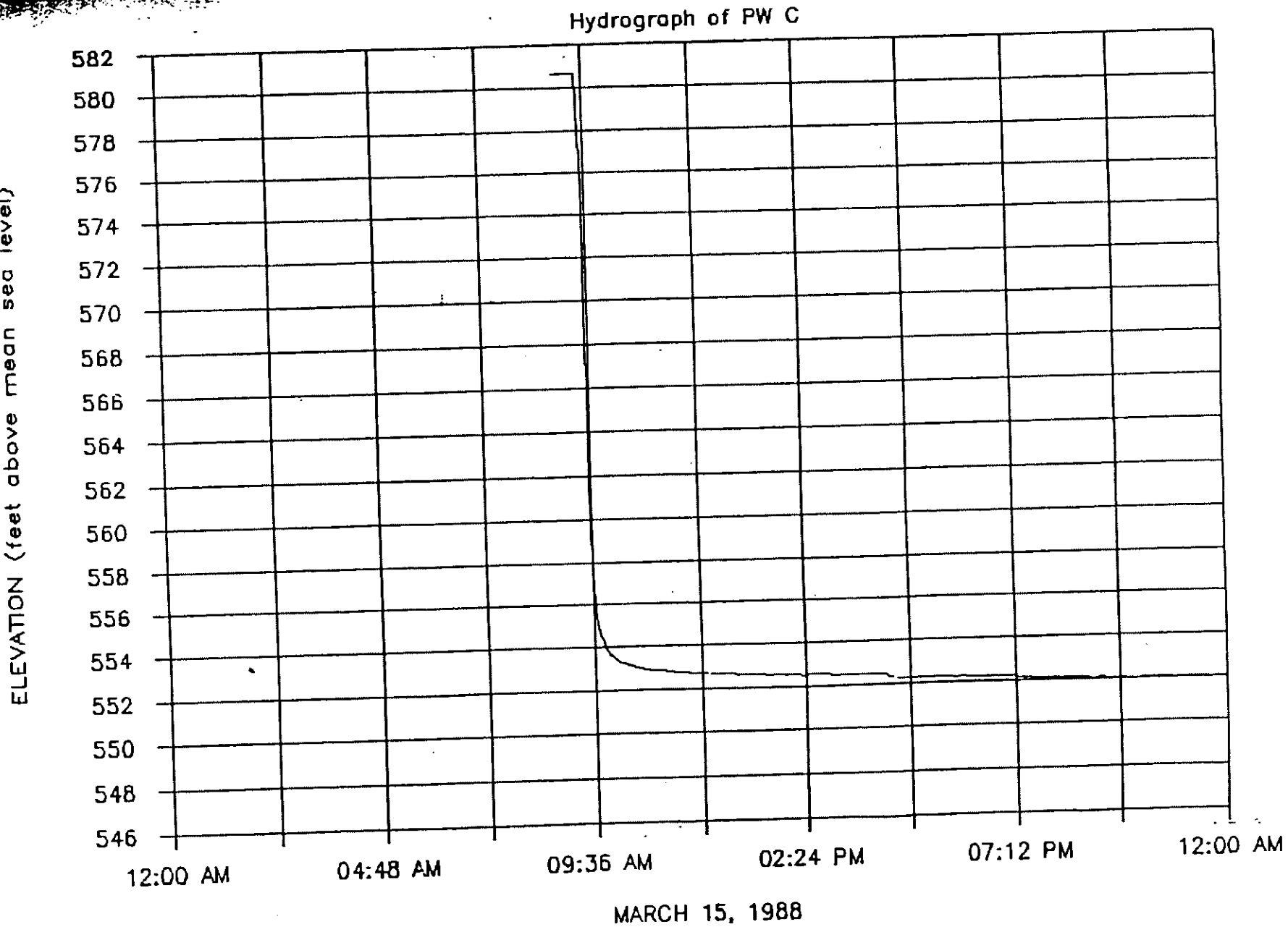
DEPTH OF WELL AFTER PLUG 62'
DEPTH TO GRAVEL WALL 15'
FROM ☐ GRD. LEV. ☐ TOP OF ☒ ORIG. GRD.

MISCELLANEOUS:
DATE WORK STARTED 1-4-88 DATE FIRST PUMPED 3-15
DID WELL CLEAR UP YES HOW SOON 5 MIN.
WAS SAND PUMPED NO HOW LONG
HOW LONG AGITATED 26 HRS HOW LONG PUMPED 32
CHEM. USED TO DEVELOP SAMPLE TAKEN YES

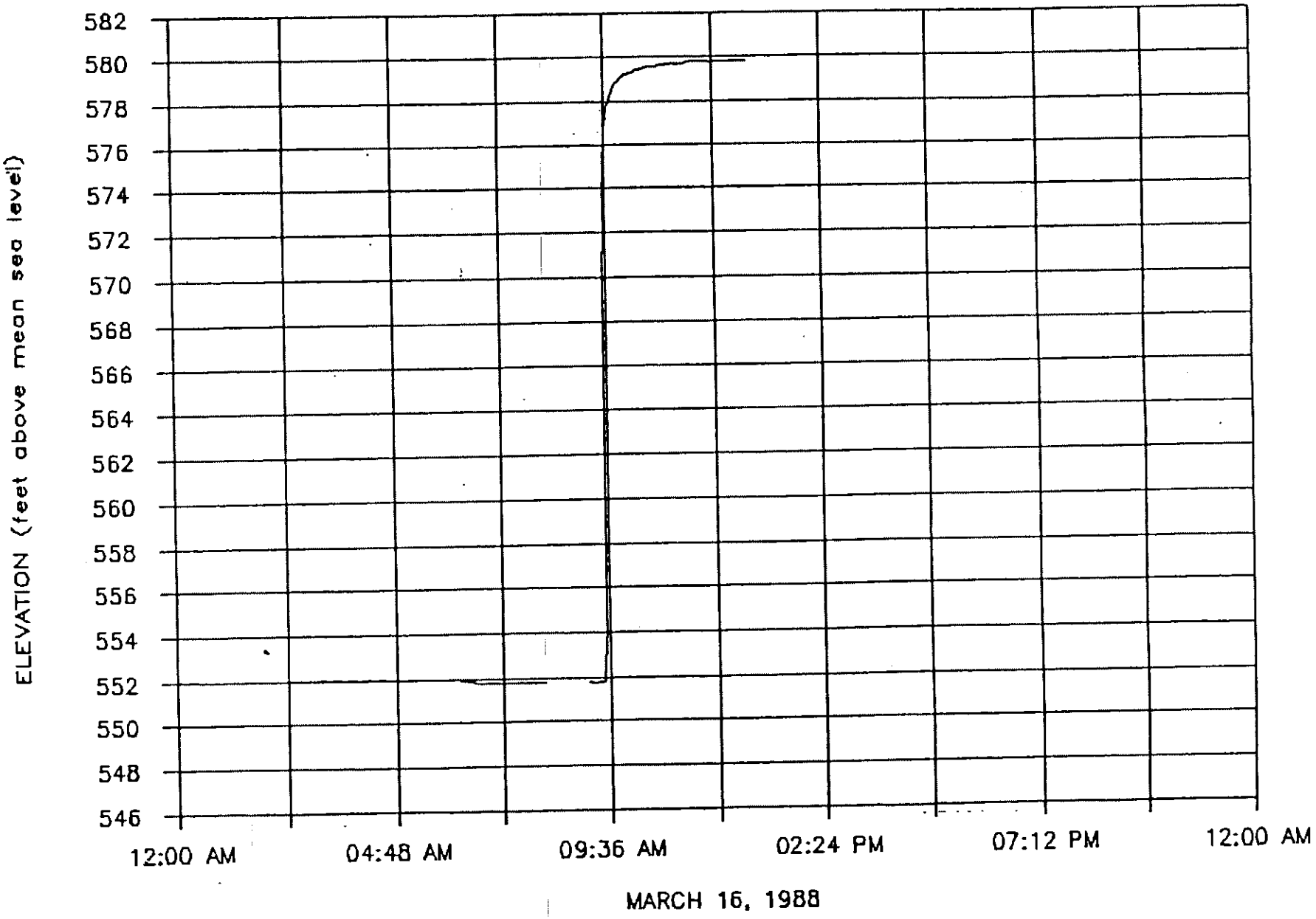
PRELIMINARY TEST DATA:
STATIC LEVEL 15' DATE 3-15-88 WATER TEMP.
CAPACITY GPM WITH 42' PUMPING LEVEL

SKETCH OF LOCATION




Hydrograph of PW C
ELEVATION (feet above mean sea level)
582
580
578
576
574
572
570
568
566
564
562
560
558
556
554
552
550
548
546
12:00 AM
04:48 AM
09:36 AM
02:24 PM
07:12 PM
12:00 AM
MARCH 15, 1988

Hydrograph of PW C



Wellhead Protection Area
Delineation Application
Attachment.

DATE: July 22, 1991

WELL DATA SHEET
sheet 4 of 6 sheets

Water System: LUBECK PSD

Well Identification: PW-D

Location: Latitude: N 39°31'34"

Longitude: W 81°41'14"

Date Drilled: NOVEMBER 1987

Depth of Well: 67 Ft

Well Casing: Diameter: 12 IN Length: 50 Ft

Grouting: Yes: ✓ No: ✓ Depth: 12 Ft

Screen: Diameter: 12 IN Length: 17 Ft

Location in Well: 50-67 FT Slot Size: 40

Surface Elevation at Wellhead: 598.8 Ft

Static Water Elevation in Well: 581.0 FT

Pumping Water Elevation in Well: 563.15 Ft

Recovery Time in Minutes: >60 MINUTES

Maximum Pumping Rate: 250 GPM

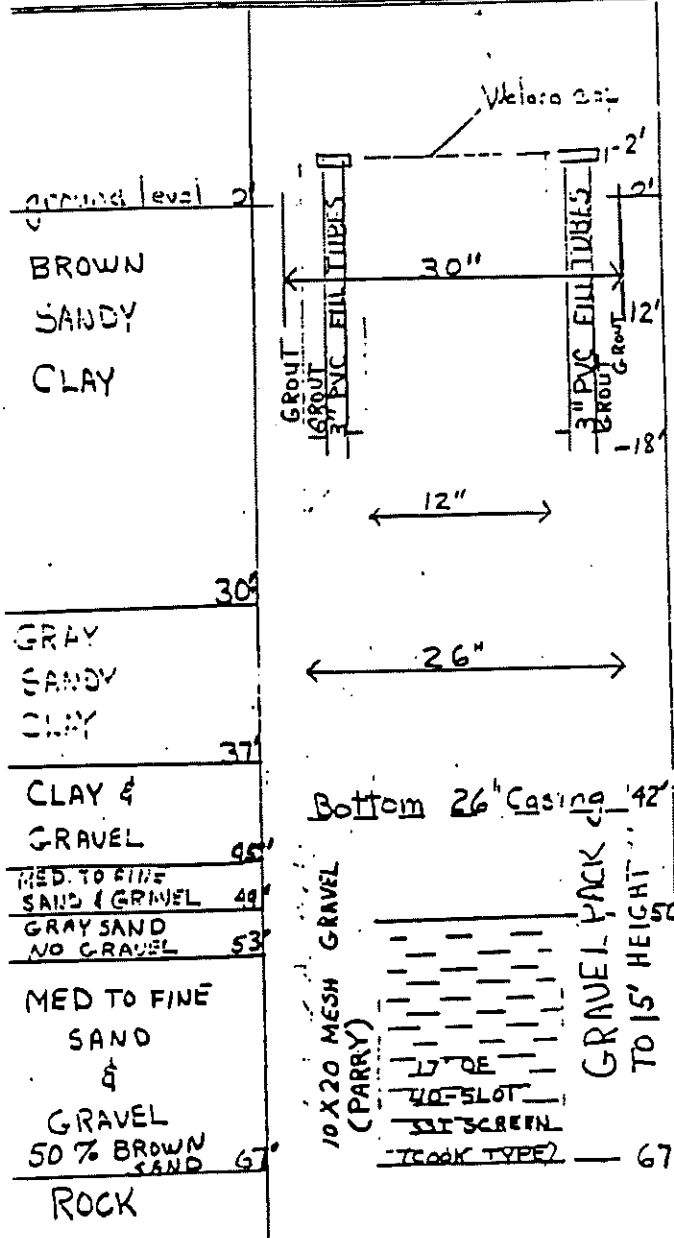
Average Gallons Pumped: 180,000 GPD

Miscellaneous Well Data: WELL IS LOCATED 32 Ft EAST OF THE OHIO RIVER, 102 Ft WEST OF RAILROAD TRACK, AND 300 Ft SOUTH OF PW-C. CAPACITY IS 14 GPM/Ft dd, TRANSMISSIVITY = 26,000 GPD AND STORAGE COEFFICIENT = 0.0046.

HYDRO GROUP — WELL PW D

DRILLERS REPORT

JOB No. 7051 DRILLER HYDRO GROUP CUSTOMER WELL No. D
CUSTOMER LUBECK PSD WELL No. HYDRO GROUP #1
WELL LOCATION WASHINGTON, W.VA. STATE PERMIT No.
FORMATION SKETCH OF SETTING REMARKS



PIPE SET:

DIA.	WALL	LGTH.	MATL	T & WE
30"	1/2"	11'2"		WE
26"		67'		WE
12"		69'		WE

PIPE LEFT IN PLACE:

DIA.	WALL	LGTH.	MATL	T & WE
30"		11'2"		WE
26"		44'3"		WE
12"		69'		WE

SCREEN:
NOM. SIZE I. D. 12" LGTH. 17' OPNG. .4
MFG. COOK TYPE METAL SST GA. No.
SET IN MED TO FINE SAND AND GRAVEL FORMATION
WELL UNDERREAMED TO DIAMETER

MISCELLANEOUS:
R & L BACK OFF CUT OFF PACKER TYPE

CONE:
DIA. TOP DIA. BOTT. LGTH. MTL.

PLUG:
DIA. LGTH. MTL.

GRAVEL: AMT. 10 TON ? SIZE 10 X 20
CLAY: BAGS PWDR. REG. BAGS CLAY

CEMENT: BAGS USED 8 YDS. CONCRETE
SEAL: CLAY LGTH. CEMENT

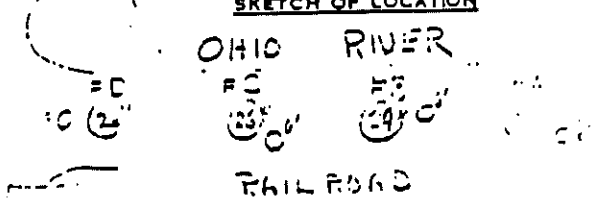
METHOD OF DRILLING:
☐ STD. ROT. ☐ REV. ROT. ☒ CABLE TOOL ☐ AIR ROT
☐ OTHER

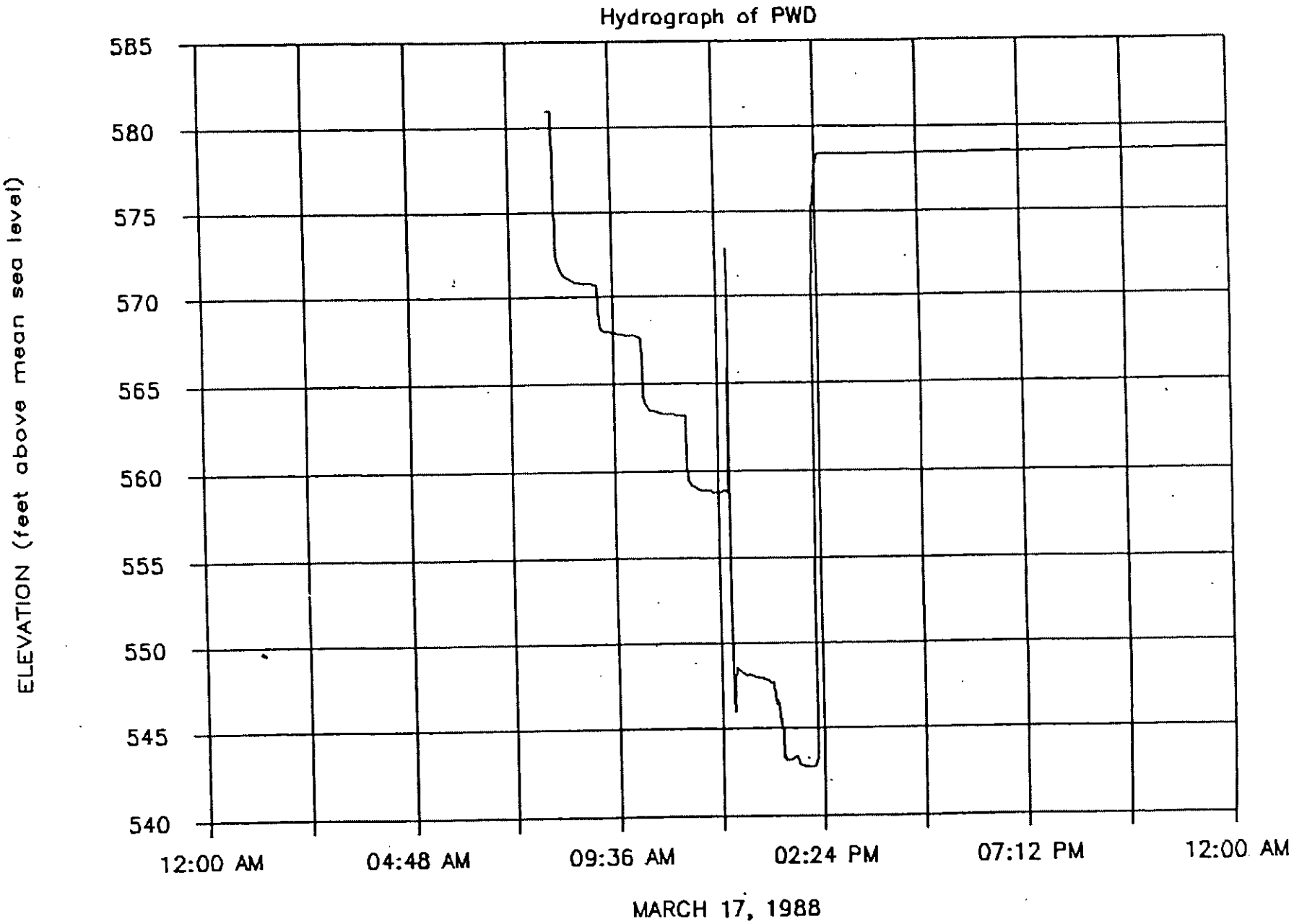
MEASUREMENTS:
GROUND ELEV. ABOVE SEA LEVEL
DEPTH OF WELL AFTER PLUG. 67' DEPTH TO GRAVEL WALL 15' FROM ☐ GRD. LEV. ☐ TOP OF ☒ ORIG. GRD.

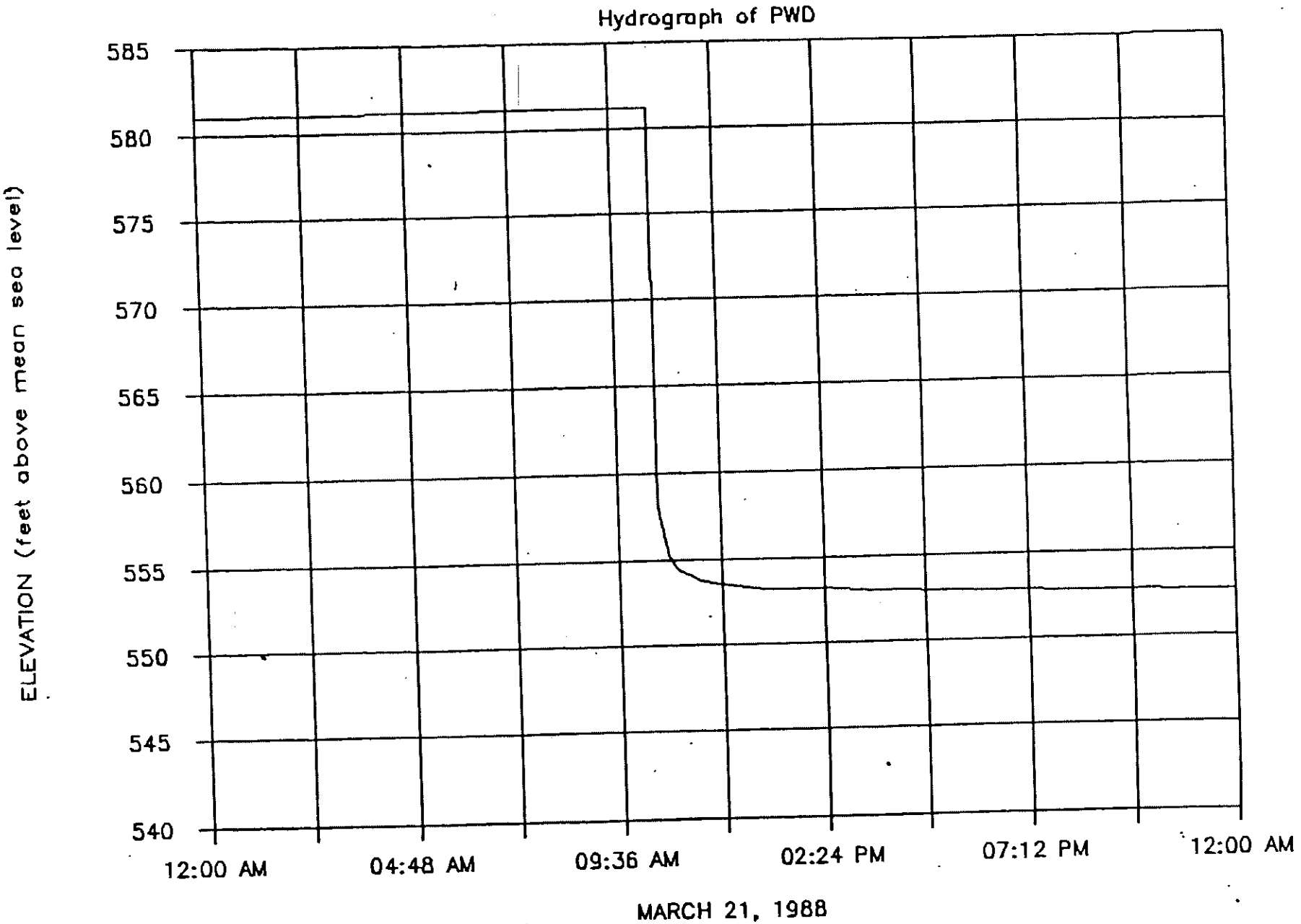
MISCELLANEOUS:
DATE WORK STARTED NOV 5 1937 DATE FIRST PUMPED MAR
DID WELL CLEAR UP YES HOW SOON 5 MIN.
WAS SAND PUMPED N HOW LONG
HOW LONG AGITATED 2 HRS HOW LONG PUMPED ½
CHEM. USED TO DEVELOP SAMPLE TAKEN

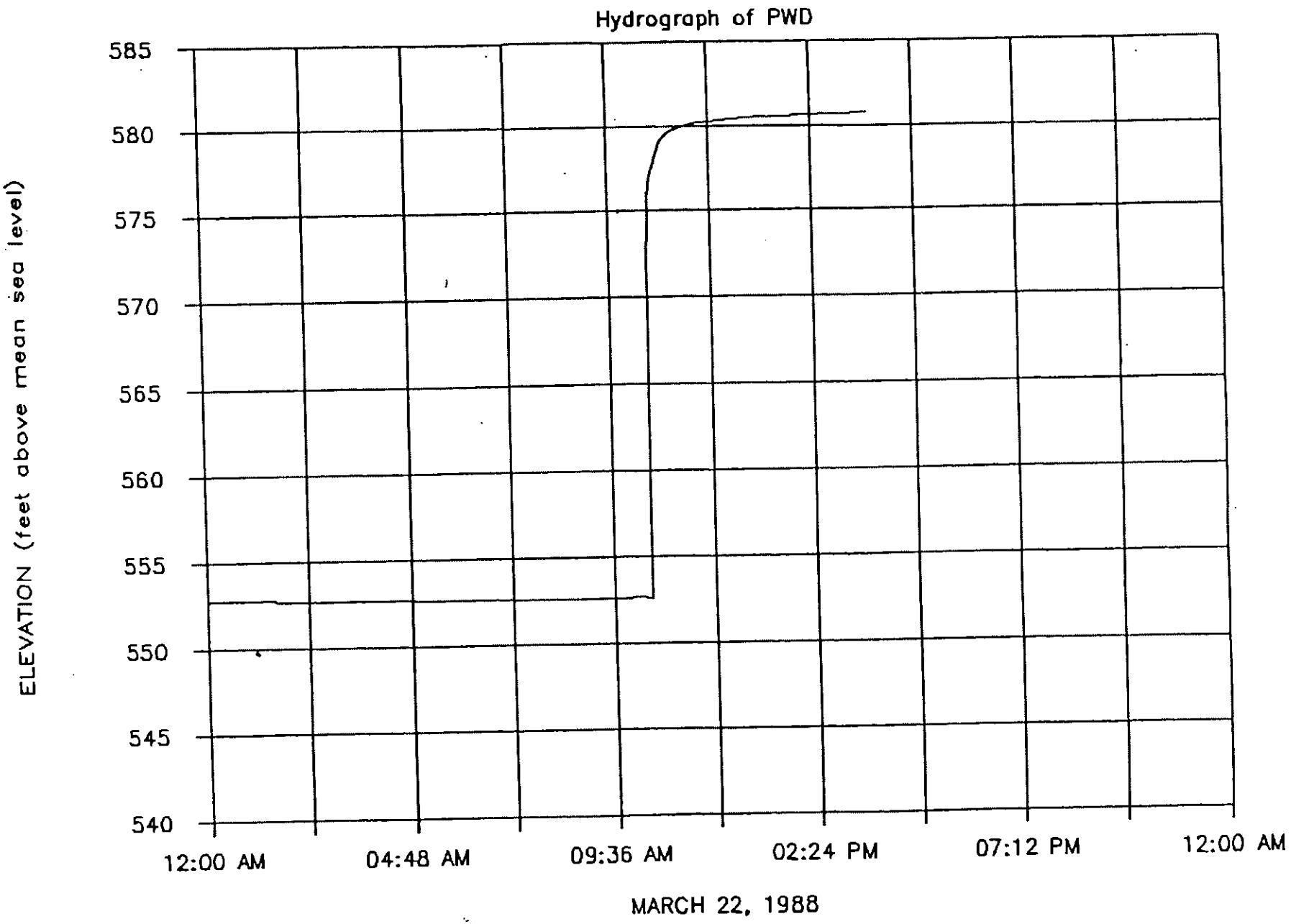
PRELIMINARY TEST DATA:
STATIC LEVEL 15' DATE 11-17 WATER TEMP
CAPACITY 5 GPM WITH 52' PUMPING LEVEL

SKETCH OF LOCATION




Hydrograph of PWD
585
580
575
570
565
560
555
550
545
540
ELEVATION (feet above mean sea level)
12:00 AM
04:48 AM
09:36 AM
02:24 PM
07:12 PM
12:00 AM
MARCH 17, 1988


Hydrograph of PWD
585
580
575
570
565
560
555
550
545
540
ELEVATION (feet above mean sea level)
12:00 AM
04:48 AM
09:36 AM
02:24 PM
07:12 PM
12:00 AM
MARCH 21, 1988


Hydrograph of PWD
585
580
575
570
565
560
555
550
545
540
ELEVATION (feet above mean sea level)
12:00 AM
04:48 AM
09:36 AM
02:24 PM
07:12 PM
12:00 AM
MARCH 22, 1988

Wellhead Protection Area
Delineation Application
Attachment.

DATE: July 22, 1991

WELL DATA SHEET
sheet 5 of 6 sheets

Water System: LUBECK PSD

Well Identification: PW-E

Location: Latitude: N 39° 31' 34"

Longitude: W 81° 41' 18"

Date Drilled: MARCH 1985

Depth of Well: 60.5 FT

Well Casing: Diameter: 12 IN Length: 45 FT

Grouting: Yes: ✓ No: Ø Depth: ?

Screen: Diameter: 12 IN Length: 16 FT

Location in Well: 44-60 Ft Slot Size: 80

Surface Elevation at Wellhead: 592.0 Ft.

Static Water Elevation in Well: 579.5 Ft

Pumping Water Elevation in Well: ?

Recovery Time in Minutes: ?

Maximum Pumping Rate: 250 GPM

Average Gallons Pumped: 180,000 GPD

Miscellaneous Well Data:

Reynolds Supply, Inc.

COMPLETE MUNICIPAL & INDUSTRIAL WATER SYSTEMS

FORMATION LOG OF WELL

ing Date March 1985 Finished _____ Well Number Test Well #1

er Lubeck Public Service Dis. Location Harless Property

TOTAL DEPTH	THICKNESS EACH STRATUM	FORMATION
0 - 5'		Topsoil and brown sand
5 - 20'		Brown sand
20 - 42'		Brown sand
42 - 50'		Gray sand and gravel
50 - 52'		Gray sand and coarse gravel
52 - 62'		Brown coarse sand and gravel
62'		Bedrock
		SWL = 14 feet
		Casing - 6-inch total 58 feet
		Screen - 5 feet

Wellhead Protection Area
Delineation Application
Attachment.

DATE: July 22, 1991

WELL DATA SHEET
sheet 6 of 6 sheets

Water System: LUBECK PSD

Well Identification: PW-F

Location: Latitude: N 39° 31' 36"

Longitude: W 81° 41' 22"

Date Drilled: APRIL 1985

Depth of Well: 53.5 Ft

Well Casing: Diameter: 12 IN Length: 38.5 FT

Grouting: Yes: ✓ No: Depth: ?

Screen: Diameter: 12 Length: 16 FT

Location in Well: 37.5-53.5 Ft Slot Size: 80

Surface Elevation at Wellhead: 595.5 Ft

Static Water Elevation in Well: 588.33

Pumping Water Elevation in Well: ?

Recovery Time in Minutes: ?

Maximum Pumping Rate: 250 GPM

Average Gallons Pumped: 180,000 GPD

Miscellaneous Well Data:

Reynolds Supply, Inc.

COMPLETE MUNICIPAL & INDUSTRIAL WATER SYSTEMS

FORMATION LOG OF WELL

Date April 1985 Finished _____ Well Number Test Well #4

Lubeck Public Service District Location Harless Property

L DEPTH	THICKNESS EACH STRATUM	FORMATION
- 5'		Topsoil and sand
- 15'		Brown sand
- 25'		Brown sand
- 35'		Brown sand
- 40'		Sand and gravel
- 45'		Brown sand and gravel
- 50'		Brown sand and gravel
- 55'		Brown sand and gravel
- 60'		Brown sand and gravel
- 63'		Brown sand and gravel
63'		Bedrock
		Casing - 6-inch Total 61 feet.
		Screen - 5 feet

Water Level _____ Draw Down _____

RCRA FACILITY INVESTIGATION REPORT
DUPONT WASHINGTON WORKS
WASHINGTON, WEST VIRGINIA
USEPA PERMIT NUMBER WVD04-587-5291

June 30, 1999

Project No. 0D6W7205

CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and The W-C Diamond Group

Barley Mill Plaza, Building 27
Wilmington, Delaware 19880-0027

EID109643

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W-C Diamond
Project Manager

Andrew S. Hartten
Andrew Hartten
DuPont CRG
Project Director

J. Stephen Opp
J. Stephen Opp
W-C Diamond
Deputy Project Manager

GLK002615

APPENDIX E

BORING LOGS

DUPONT

Corporate Remediation Group

An Alliance between
DuPont and The W-C Diamond Group

SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/2/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	633.31
BORING NO.	AA06-SB01	**COORDINATES:**	4648.869N, 6496.5
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0						0-2			Fill: Light grey gravelly FILL, dry.	
-2		25,16,25,16	33	ND	NA			ML	Silt: Reddish brown sandy SILT with lenses of silty fine sand, black staining throughout, moist.	
-4		5,6,7,7	83	ND						
-6		5,6,7,7	0	ND		6-8				
-8		3,4,4,4	100	0.5				SM		
-10		3,4,5,5	100	ND						
-12		6,4,4,5	100	ND						
-14		3,4,4,6	100	ND		14-16			Sand: Brown to reddish brown silty fine SAND with little fine to medium gravel, 1 to 2 inch fine sandy silt lenses, little black staining, moist.	
-16		7,6,5,4	100	ND						
-18		6,8,7,4	54	ND				SM	Sand: Tan to brown silty fine SAND with some fine to medium gravel, moist.	
-20		4,5,4,4	79	ND		20-22				
-22		4,5,7,7	46	ND						
-24		7,6,5,6	0	ND				SP/ GP		
-26		5,4,4,4	46	ND					Sand: Tan to brown fine to coarse SAND with some fine gravel, moist.	
-28		4,5,4,4	63	ND						
-30		6,6,7,6	4	ND						
-32		5,4,4,4	50	ND						
-34		3,5,6,3	58	0.5					Sand: Brown to tannish brown silty fine to medium SAND with some fine to medium	

DUPONT

Corporate Remediation Group

An Alliance between
DuPont and The W-C Diamond Group

SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/2/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	633.31
BORING NO.	AA06-SB01	**COORDINATES:**	4648.869N, 6496.58
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		5,5,4,5	92	ND					gravel, black charcoal fragments throughout, moist.	
-38		4,5,4,4	96	ND						
-40		4,5,6,7	0	ND		40-42		SW	Sand: Tannish brown fine to coarse SAND with some fine gravel, moist.	
-42		5,4,4,3	67	ND					Gravel and Sand: Brown fine to coarse GRAVEL and tannish brown fine to medium clean SAND, moist.	
-44		15,14,14,8	29	ND					Sand: Tannish brown to brown fine to coarse SAND with trace fine gravel, moist.	
-46		10,10,10,11	83	ND					-black staining	
-48		9,10,11,11	100	ND					Sand: Tannish brown to brown fine to coarse SAND with trace fine gravel, moist.	
-50		6,8,11,13	100	ND						
-52		17,16,15,17	100	ND						
-54		15,15,20,24	100	ND					Sand: Tannish brown fine SAND, moist.	
-56		16,12,13,10	100	1				SP		
-58		8,8,9,13	100	1					Sand: Tannish brown fine to coarse SAND with trace fine gravel, moist to wet at 66 feet.	
-60		15,18,18,20	100	0.5						
-62		17,12,20,30	100	1						
-64		30,25,25,33	100	ND		64-66				
-66	▼	16,21,17,11	100	ND					-wet	GW @ 66.0'
-68		16,15,12,9	100	ND					-end of boring @ 68 feet	
-70										

DUPONT

Corporate Remediation Group

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/27/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	630.66
BORING NO.	AA07-SB02	**COORDINATES:**	4408.585N, 6516.5
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		NA		ND	NA	0-2		ML	Silt: Brown to reddish brown fine sandy SILT, dry.	
-2			100						Silt: Brown to reddish brown fine sandy SILT with some orange and grey mottles, moist.	
-4			100			4-6				
-6			100						-end of hand auger @ 6 feet	
-8										

DUPONT

Corporate Remediation Group

An Alliance between DuPont and The W-C Diamond Group

SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/27/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	627.89
BORING NO.	AA08-SB01	**COORDINATES:**	4322.063N, 6646.89
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		NA		ND	NA	0-2		SM	Topsoil: TOPSOIL	
-2			100						Sand: Brown to reddish brown silty fine SAND with little fine to coarse gravel, dry.	
-4			100			4-6				
-6			100						-end of hand auger @ 6 feet	
-8										

DUPONT

Corporate Remediation Group
An Alliance between
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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/27/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	627.89
BORING NO.	AA08-SB02	**COORDINATES:**	4322.063N, 6646.8
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		NA		ND	NA	0-2		ML	Topsoil: TOPSOIL	
-2			100						Silt: Brown to reddish brown SILT with trace fine to coarse gravel, refusal of auger at 31", dry.	
-4									-end of hand auger @ 2.6 feet	

Corporate Remediation Group

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/8/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	631.92
BORING NO.	AB06-SB02	**COORDINATES:**	4653.162N, 6630.45
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0						0-2			Fill: Light grey gravelly silty FILL,dry	
-2		25,16,25,16	33	ND	NA				Silt: Brown SILT, moist.	
-4		5,6,7,7	83	ND				ML		
-6		5,6,7,7	0	ND		6-8				
-8		3,4,4,4	100	0.5				SM	-shelby tube collected, 8 to 10 feet	
-10		3,4,5,5	100	ND					Silt: Brown SILT, moist.	
-12		6,4,4,5	100	ND						
-14		3,4,4,6	100	ND		14-16			Sand and Silt: Tan to brown silty fine SAND and brown SILT, moist.	
-16		7,6,5,4	100	ND					Sand: Brown silty fine to medium SAND, moist to wet.	PW @16 feet
-18		6,8,7,4	54	ND				SM	Gravel and Sand: Brown fine to coarse SAND and fine GRAVEL, moist to wet.	
-20		4,5,4,4	79	ND		20-22			Sand: Brown to light brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-22		4,5,7,7	46	ND						
-24		7,6,5,6	0	ND				SP/ GP	Sand: Brown fine to coarse SAND with some fine gravel, moist.	
-26		5,4,4,4	46	ND						
-28		4,5,4,4	63	ND						
-30		6,6,7,6	4	ND						
-32		5,4,4,4	50	ND						
-34		3,5,6,3	58	0.5						

DUPONT

Corporate Remediation Group

An Alliance between
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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/8/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	631.92
BORING NO.	AB06-SB02	**COORDINATES:**	4653.162N, 6630.45
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		5,5,4,5	92	ND						
-38		4,5,4,4	96	ND						
-40		4,5,6,7	0	ND		40-42		SW	Sand: Tannish brown fine to medium clean SAND with little fine to medium gravel, moist.	
-42		5,4,4,3	67	ND						
-44		15,14,14,8	29	ND					-black organic stained layers	
-46		10,10,10,11	83	ND					Sand: Tannish brown medium clean SAND with some fine to medium gravel, 2 inch charcoal seam, moist.	
-48		9,10,11,11	100	ND					Sand: Tannish brown medium clean SAND with trace fine gravel, moist.	
-50		6,8,11,13	100	ND						
-52		17,16,15,17	100	ND						
-54		15,15,20,24	100	ND					-charcoal seam	
-56		16,12,13,10	100	1				SP	-charcoal seam Sand: Tannish brown medium clean SAND with trace fine gravel, moist.	
-58		8,8,9,13	100	1					Sand: Tannish brown fine to coarse SAND with trace fine gravel, moist.	
-60		15,18,18,20	100	0.5						
-62		17,12,20,30	100	1					-wet	GW @ 63 feet
-64		30,25,25,33	100	ND		64-66			-end of boring @ 64 feet	

DUPONT

Corporate Remediation Group

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/27/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	628.18
BORING NO.	AB08-SB02	**COORDINATES:**	4371.537N, 6667.4
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		NA		ND	NA	0-2		SM	Topsoil: TOPSOIL	
-2			100					ML	Sand: Brown to reddish brown silty fine to medium SAND with some fine to coarse gravel, dry.	
-4			100			4-6			Silt: Brown clayey SILT with some orange and grey mottles, dry.	
-6			100						-end of hand auger @ 6 feet	
-8										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/21/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	601.20
BORING NO.	AC04-SB01	**COORDINATES:**	5061.347N, 6975.71
DRILLING METHOD:	61/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0										
-2		7,15,25,10	83	NIR	NIR	0-2		SM	Sand: Light brown silty fine SAND with little fine to medium gravel, some organics, dry.	
-4		6,8,7,7	67	NIR	NIR			ML/CL	Clay: Dark brown silty CLAY with little fine to medium gravel, moist.	
-6		3,5,12,13	92	NIR	NIR	6-8				
-8		7,9,9,10	92	NIR	NIR			ML/CL	Clay: Dark to reddish brown silty CLAY with trace fine gravel. Ash and cinder fragments at 9 to 12 feet.	
-10		5,5,6,7	75	NIR	NIR	10-12				
-12		4,4,5,4	83	NIR	NIR				Clay: Brown silty CLAY with trace fine gravel, ash and cinder, micaceous, moist.	
-14		4,5,4,6	92	NIR	NIR					
-16		4,6,6,6	63	NIR	NIR			ML/CL		
-18		NA	100	NIR	NIR	Shelby				
-20		1,2,3,3	100	NIR	NIR	20-22				
-22		2,2,3,3	100	NIR	NIR					
-24		3,3,3,3	100	NIR	NIR				Clay: Brown silty CLAY with trace medium gravel.	
-26		3,3,3,3	92	NIR	NIR			ML/CL		
-28		2,1,2,2	100	NIR	NIR	28-30		SC	Sand: Brown clayey fine SAND, moist.	
-30	▼	2,2,2,2	88	NIR	NIR				-wet	GW @ 30'
-32									-end of boring @ 30 feet	

DUPONT

Corporate Remediation Group
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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/1/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	629.40
BORING NO.	AB06-SB01	**COORDINATES:**	4788.449N, 6631.0
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Fill: Light grey gravelly fill, dry	
-2		22,17,22,17	50	0	NA					
-4		16,12,8,7	58	5		4-6		ML	Silt: Brown sandy SILT with trace fine sand.	
-6		8,7,6,4	71	2						
-8		4,4,5,6	67	1				SM	Sand: Brown silty fine SAND with some fine to medium gravel, moist.	
-10		7,5,5,4	96	1		10-12				
-12		5,4,4,5	71	0					-wet	PW @ 12 feet
-14		6,5,5,4	33	0						
-16		4,4,4,3	58	0						
-18		4,5,5,3	0	0		18-20		SM	Sand: Brown silty fine to coarse SAND with some fine gravel, wet to moist.	
-20		4,3,2,5	33	0						
-22		13,11,10,8	46	0					-decreasing moisture	
-24		13,19,20,23	0	0				SP/ GP	Gravel and Sand: Brown to tan fine to coarse SAND and fine to coarse GRAVEL, moist.	
-26		17,17,22,21	75	0						
-28		32,45,17,18	25	1						
-30		9,11,10,13	92	0						
-32		8,9,10,8	71	0						
-34		13,20,25,23	75	0						

DUPONT

Corporate Remediation Group

An Alliance between
DuPont and The W-C Diamond Group

SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/1/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	629.40
BORING NO.	AB06-SB01	**COORDINATES:**	4788.449N, 6631.004E
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		16,20,15,12	83	2					Gravel and Sand: Brown to tan fine to coarse SAND and fine to coarse GRAVEL, moist.	
-38		11,11,10,8	83	1.5						
-40		12,12,25,28	100	1		40-42		SW	Sand: Tannish brown fine clean SAND with trace fine gravel, moist.	
-42		28,19,15,20	100	1						
-44		10,9,14,16	83	1						
-46		8,11,13,12	63	1						
-48		8,16,14,21	100	1						
-50		12,14,18,23	100	1.5						
-52		18,19,18,13	100	1						
-54		9,10,12,14	96	1						
-56		8,12,18,16	100	1				SP	Sand: Tannish brown fine to medium SAND with trace fine gravel, moist.	
-58		9,11,16,16	100	1		58-60				
-60	▼	11,11,16,13	100	1					-wet	GW @ 59.5 feet
-62									-end of boring @ 60 feet	

DUPONT

Corporate Remediation Group

An Alliance between DuPont and The W-C Diamond Group

SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/31/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	631.96
BORING NO.	AC06-SB03	**COORDINATES:**	4787.711N, 6810.99
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0						0-2			Asphalt: ASPHALT	
-2		18,12,14,14	67	0	NA				Fill: Brown and grey sandy gravelly FILL, dry	
-4		19,13,16,12	75	1				CL ML	Clay: Brown sandy, silty CLAY with some fine to coarse gravel, dry.	
-6		11,13,18,12	96	1		6-8		ML/ CL	Silt: Brown sandy SILT with some fine gravel, dry. Clay: Reddish brown silty CLAY with some fine gravel, moist.	
-8		6,6,6,5	50	0						
-10		6,4,5,4	0	0				SM	Silt: Brown sandy SILT, moist.	
-12		4,4,5,5	92	0		12-14		SP/ CL	Sand: Brown silty SAND, moist. Clay: Reddish brown fine sandy CLAY, moist	
-14		4,5,8,9	92	0.5				SC	Sand: Reddish brown fine clayey SAND with little fine to medium gravel, moist	
-16		4,6,7,8	25	0						
-18		4,4,6,6,	21	0						
-20		4,6,7,8	8	0						
-22		6,4,5,5	0	0				SP	Sand: Brown fine to medium SAND with some fine to coarse gravel, moist.	
-24		6,5,5,4	25	0						
-26		4,5,4,5	17	0						
-28		5,4,5,4	0	0				GP/ SP	Gravel and Sand: Brown fine GRAVEL and medium to coarse SAND, moist.	
-30		6,5,4,5	13	0						
-32		6,5,4,4	0	0						
-34		4,5,6,7	21	0		34-36				

DUPONT

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/31/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	631.96
BORING NO.	AC06-SB03	**COORDINATES:**	4787.711N, 6810.993
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		6,8,6,8	42	0						
-38		5,4,5,4	92	0						
-40		6,4,5,7	83	0				SP	Sand: Brown medium to coarse SAND with some fine gravel, moist.	
-42		2,12,9,9	67	0						
-44		8,7,11,10	50	0					Sand: Tannish brown fine to medium clean SAND, moist.	
-46		15,17,16,16	83	0						
-48		26,20,22,27	100	0		48-50		SP	Sand: Tannish brown fine to medium SAND with trace fine gravel, moist.	
-50		25,15,23,27	100	0						
-52		18,18,13,15	100	0						
-54		15,13,16,17	92	0					Sand: Tannish brown fine to medium clean SAND with trace fine gravel, moist to wet at 63 feet.	
-56		14,12,16,17	100	0						
-58		11,11,14,16	100	0						
-60		15,12,13,15	100	0						
-62	▼	14,13,11,14	100	0		62-64			-wet	GW @ 63.0'
-64			100	0					-end of boring @ 64 feet	
-66										

DUPONT

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. AC06-SBO4
DRILLING METHOD: 6 1/4" OD HSA

DATE: 9/1/98
ELEVATION: 631.39
COORDINATES: 4770.050N, 6898.73
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0						0-2			Fill: Brown and grey sandy gravelly FILL, dry	
-2		14,16,17,16	67	0	NA					
-4		12,4,7,11	75	0				ML	Silt: Brown fine sandy SILT, dry.	
-6		6,4,4,3	96	0		6-8				
-8		3,3,3,4	50	0					-increasing fine sand and moisture content	
-10		4,4,4,3	0	0				SM	Sand: Brown silty fine SAND with little fine to medium gravel , dry.	
-12		4,3,4,5	92	0						
-14		9,8,9,8	92	0		14-16			Sand: Brown silty fine to medium SAND with some fine gravel, moist to wet at 16 feet.	
-16		9,4,3,4	25	0					-wet	PW @ 16 feet
-18		4,9,12,11	21	0				SP	Sand: Brown fine to coarse SAND with some fine to coarse gravel.	
-20		7,8,5,7	8	0						
-22		5,5,4,5	0	0						
-24		5,6,7,9	25	0						
-26		10,9,12,18	17	0						
-28		10,10,12,11	0	0						
-30		14,15,11,13	13	0						
-32		26,38,14,15	0	0						
-34		13,13,16,19	21	0		34-36				

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/1/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	631.39
BORING NO.	AC06-SB04	**COORDINATES:**	4770.050N, 6898.733
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		20,33,37,31	42	0						
-38		21,16,15,19	92	0				SP	Sand: Tan to brown fine to coarse clean SAND with some fine to coarse gravel, some black charcoal lenses.	
-40		17,17,18,20	83	0						
-42		18,19,21,22	67	0						
-44		40,22,18,14	50	0				SP	Sand: Tan fine clean SAND, moist.	
-46		4,15,16,17	83	0						
-48		11,12,16,22	100	0						
-50		20,19,22,29	100	0				SP	Sand: Tan fine to medium clean SAND with trace fine gravel, moist.	
-52		18,23,24,27	100	0						
-54		12,11,14,11	92	0		54-56				
-56		21,20,25,26	100	0						
-58		14,17,18,23	100	1						
-60		20,17,15,13	100	0				SP	Sand: Tannish brown fine to coarse SAND with trace fine gravel, moist.	
-62	▼	15,18,20,22	100	0		62-64			-wet	GW @ 62.5 feet
-64		15,13,11,12	100	0					-end of boring @ 64 feet	
-66										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/9/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	632.03
BORING NO.	AC06-SB05	**COORDINATES:**	4655.974N, 6810.30
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0						0-2			Fill: Light grey gravelly silty FILL, dry	
-2		5,11,12,11	71	0	NA			ML	Silt: Brown SILT with trace fine gravel and trace clay, moist	
-4		5,4,3,4	58	0						
-6		4,3,6,4	92	0		6-8				
-8		3,1,2,3	100	0				SM/ ML	Sand and Silt: Tan to brown silty fine SAND and fine sandy SILT with trace fine gravel, moist.	
-10		5,5,4,5	83	0						
-12		4,3,3,3	100	0		12-14				
-14		4,4,4,3	100	0						
-16		3,7,6,9	79	0				SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-18		5,4,3,4	50	0		18-20		SM/ GP	Gravel and Sand: Brown silty fine to medium SAND and fine to medium GRAVEL, moist.	
-20		4,4,5,6	71	0						
-22		6,6,5,6	50	0						
-24		8,17,20,25	75	0						
-26		17,31,27,25	71	0				SM	Sand: Brown silty fine to medium SAND with little fine to medium gravel, moist.	
-28		9,15,11,21	67	0						
-30		5,9,15,18	83	0						
-32		10,20,23,21	92	0						
-34		20,23,15,18	75	0						

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. AC06-SB05
DRILLING METHOD: 6 1/4" OD HSA

DATE: 9/9/98
ELEVATION: 632.03
COORDINATES: 4655.974N, 6810.301
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		13,19,19,23	100	0						
-38		19,30,30,20	92	00						
-40		19,28,43,50	33	0		40-42				
-42		15,23,27,23	100	0						
-44		11,11,18,20	96	0				SP	Sand: Tannish brown fine to medium clean SAND with trace fine gravel, moist.	
-46		11,13,15,17	75	0						
-48		10,12,14,20	100	0						
-50		18,26,36,30	100	0				SP	Sand: Tannish brown fine to coarse SAND with trace fine gravel, moist.	
-52		19,36,21,23	100	0						
-54		14,24,34,44	100	0						
-56		19,27,34,27	100	0						
-58		18,25,25,30	100	0						
-60		16,16,16,23	100	0						
-62	▼	18,20,26,26	100	0		62-64				
-64		30,16,18,22	100	0					-wet	GW @ 63.0'
-66									-end of boring @ 64 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/14/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	632.88
BORING NO.	AC07-SB03	**COORDINATES:**	4510.256N, 6765.37
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0						0-2		ML	Fill: Gravelly FILL, dry.	
-2		16,10,9,9	58	2	NA				Silt: Reddish brown fine sandy SILT, dry.	
-4		15,9,11,12	71	2		4-6				
-6		5,7,5,6	50	1						
-8		2,2,4,3	83	1		8-10		SM	Sand: Reddish brown to brown silty fine SAND, moist.	
-10		2,2,3,4	100	1				ML	Silt: Reddish brown to brown fine sandy SILT, moist.	
-12		4,3,3,3	100	1				SM	Sand: Reddish brown to brown silty fine SAND, moist.	
-14		3,4,4,5	100	0		14-16		SP	Sand: Tannish brown to brown fine to medium clean SAND, moist.	
-16		5,3,4,6	75	0						
-18		Shelby tube	100	0				SP	Sand: Brown fine to medium SAND with some fine to coarse gravel, moist.	
-20		7,7,6,6	42	0		20-22				
-22		5,4,3,3	42	0				SM	Sand: Brown to tannish brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-24		3,4,5,3	50	0						
-26		5,6,4,7	33	0						
-28		6,8,8,6	0	0						
-30		5,8,5,6	58	0						
-32		3,3,4,5	75	0						
-34		9,12,13,10	75	0						

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. AC07-SB03
DRILLING METHOD: 6 1/4" OD HSA

DATE: 9/14/98
ELEVATION: 632.88
COORDINATES: 4510.256N, 6765.377
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		10,12,9,16	75	0					Sand: Brown to tannish brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-38		9,23,15,10	71	0						
-40		10,11,7,4	0	0		40-42		SP	Sand: Brown fine SAND, moist.	
-42		5,6,8,13	67	0						
-44		11,34,25,31	92	0				SM	Sand: Brown to tannish brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-46		25,30,18,26	83	0				SP		
-48		7,6,7,7	100	0				SP	Sand: Brown to tannish brown fine to medium SAND with trace fine gravel, 0.5 inch charcoal seam, moist.	
-50		7,12,10,14	100	0					Sand: Brown to tannish brown fine to medium clean SAND, 2 inch charcoal seams, moist.	
-52		8,9,12,9	100	0				SP	Sand: Brown to tannish brown fine to medium clean SAND with 1/2 inch charcoal seams throughout sample, moist.	
-54		6,7,7,7	71	0						
-56		13,15,18,19	79	0				SP	Sand: Brown to tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-58		17,19,18,19	92	0						
-60		10,11,11,12	83	0						
-62		4,4,10,15	100	0						
-64	▼	12,11,15,20	100			64-66			-wet	GW @ 65 feet
-66		12,11,15,20	100						-end of boring @ 66 feet	
-68										

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. AC07-SB04
DRILLING METHOD: 6 1/4" OD HSA

DATE: 9/14/98
ELEVATION: 631.17
COORDINATES: 4444.888N, 6882.782
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0						0-2		ML	Topsoil: TOPSOIL	
-2		10,15,12,9	83	0	NA				Silt: Brown to reddish brown fine sandy SILT with little fine to medium gravel, some organics, orange and grey mottles, dry.	
-4		9,8,11,9	83	0		4-6				
-6		5,4,5,6	88	0						
-8		3,3,4,4	100	0					-moist	
-10		3,4,4,5	100	0		10-12		ML/ SM	Sand and Silt: Brown fine sandy SILT and silty fine SAND, moist.	
-12		3,4,4,4	100	0				SM	Sand: Brown to tannish brown silty fine to medium SAND with thin lenses of charcoal, moist.	
-14		3,4,4,6	100	0		14-16				
-16		4,4,46	92	0				SM	Sand: Brown silty fine to medium SAND with some fine to medium gravel, moist.	
-18		4,4,5,7	33	0						
-20		10,9,4,3	38	0		20-22				
-22		6,3,3,4	42	0				SP/ GP	Gravel and Sand: Brown fine to coarse SAND and fine to coarse GRAVEL, moist.	
-24		6,3,3,2	42	0						
-26		5,4,3,3	63	0						
-28		6,6,4,3	8	0				SP	Sand: Brown to tannish brown fine to medium SAND with some fine to medium gravel, moist.	
-30		6,5,7,11	75	0						
-32		14,13,13,12	83	0						
-34		9,8,8,6	75	0						

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. AC07-SB04
DRILLING METHOD: 6 1/4" OD HSA

DATE: 9/14/98
ELEVATION: 631.17
COORDINATES: 4444.888N, 6882.78
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		11,7,11,10	29	0					-charcoal seam	
-38		8,12,16,16	92	0				SM	Sand: Brown to tannish brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-40		13,21,23,26	75	0		40-42				
-42		45,41,50/3	17	0						
-44		13,16,14,16	92	0				SP	Sand: Tannish brown fine to medium clean SAND with trace fine gravel, moist.	
-46		9,11,13,24	100	0						
-48		13,11,13,21	88	0						
-50		14,16,17,13	100	0						
-52		8,9,13,20	100	0				SP	Sand: Tannish brown fine to medium SAND with trace fine to medium gravel, moist.	
-54		16,24,25,29	100	0						
-56		16,22,23,16	100	0				SP	Sand: Tannish brown fine to medium clean SAND with trace fine gravel, moist.	
-58		10,11,13,13	92	0						
-60		11,9,12,13	100	0		60-62				
-62	▼	6,6,11,10	100	0					-wet	GW @ 61.5 feet
-64									-end of boring @ 62 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/27/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	628.34
BORING NO.	AC08-SB01	**COORDINATES:**	4343.553N, 6785.952
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0						0-2			Asphalt: ASPHALT	
-2		12,15	50	1	NA			ML	Silt: Brown fine sandy SILT with some black staining, dry.	
-4		16,9,10,13	71	0					Silt: Brown fine sandy SILT with trace fine to medium gravel, some orange and grey mottles, dry.	
-6		7,6,7,7	83	0		4-6			Silt: Brown clayey SILT with little fine to medium gravel, dry.	
-8		6,5,9,10	83	0					Silt: Brown to reddish brown clayey SILT with orange and grey mottles, micaceous, black cinders, moist.	
-10		4,4,5,6	100	0		8-10			Silt: Brown to reddish brown fine sandy SILT with trace clay, moist.	
-12		4,4,4,5	100	0					-wet	PW @ 14 feet
-14		5,6,8,9	71	0				SM	Sand: Brown silty fine to coarse SAND with some fine to coarse gravel, moist.	
-16		9,10,11,11	75	0		14-16				
-18		8,9,12,15	33	0						
-20		9,6,7,4	63	0				SM/ GM	Gravel and Sand: Brown silty fine to coarse SAND and fine to coarse GRAVEL, moist.	
-22		4,4,6,6	83	0		20-22			-wet	PW @ 22 feet
-24		4,4,4,4	67	0				SP	Sand: Brown to tannish brown fine to medium SAND with trace fine to coarse gravel, moist.	
-26		7,3,2,3	8	0						
-28		5,5,5,5	100	0					Sand: Brown to tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-30		3,4,4,5	71	0						
-32		3,3,2,2	38	0						
-34		5,7,6,6	42	0					Sand: Brown to tannish brown fine to medium SAND with some fine to medium gravel, moist	PW @ 34 feet

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/27/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	628.34
BORING NO.	AC08-SB01	**COORDINATES:**	4343.553N, 6785.952
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		5,4,4,2	83	0					to wet.	
-38		5,6,7,7	83	0					Sand: Brown to tannish brown fine to coarse SAND with some fine to coarse gravel, moist.	
-40		6,7,7,7	83	0						
-42		7,7,11,12	83	0						
-44		12,12,13,13	100	0						
-46		15,16,15,12	75	0						
-48		11,11,11,11	33	0						
-50		6,8,8,8	100	0						
-52		8,8,9,8	75	0					Sand: Tannish brown fine to medium SAND with trace fine gravel, moist.	
-54		11,12,13,12	100	0						
-56		12,13,15,16	83	0						
-58	▼	6,8,8,8	100	0					-wet	GW @ 59 feet
-60		9,11,11,11	100	0		58-60			-end of boring @ 60 feet	
-62										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/24/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	626.82
BORING NO.	AC08-SB02	**COORDINATES:**	4242.106N, 6978.92
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0										
-2		4,12,19,20	92	0	NA	2-4		SM	Topsoil: TOPSOIL, dry.	
-4		25,55,11,13	83	0				ML/ CL	Sand: Light brown silty fine SAND with some fine to coarse gravel, dry.	
-6		5,5,6,11	100	0				CL	Clay: Grey and brown silty CLAY with some organics, 2 inch lens of grey slag gravel, dry.	
-8		4,5,5,6	100	1					Clay: Light grey CLAY with orange mottles, some organics and cinder/charcoal inclusions, dry to moist.	
-10		3,3,3,3	100	0		10-12		OL	Silt: Orange and grey clayey SILT, little organics, soft, moist.	
-12		3,3,3,3	100	0					Clay: Brown and grey CLAY with orange mottles, soft, moist.	
-14		3,3,4,5	100	0				MH	Silt: Grey to brown clayey SILT with orange mottles, soft, moist to wet.	PW @ 14 feet
-16		4,6,7,8	100	0				SM	Sand: Brown silty medium SAND with some fine to coarse gravel, charcoal/cinder layers throughout, moist.	
-18		4,5,7,8	50	0						
-20		6,7,8,10	0	0		20-22				
-22		7,11,13,9	29	0						
-24		12,13,10,12	33	0				SP	Sand: Brown medium SAND with little fine to medium gravel, moist.	
-26		8,10,10,12	71	0						
-28		9,11,9,7	67	0						
-30		6,5,6,11	83	0		30-32		SW	Sand: Brown to tannish brown medium clean SAND, moist.	
-32		7,14,16,14	75	0						
-34		19,24,19,16	25	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/24/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	626.82
BORING NO.	AC08-SB02	**COORDINATES:**	4242.106N, 6978.92(
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		17,18,18,24	0	0						
-38		8,11,13,6	75	0				SP	Sand: Brown to tannish brown medium SAND with some fine to coarse gravel, moist.	
-40		8,9,11,11	100	0					Sand: Tannish brown fine to medium clean SAND with trace gravel, moist.	
-42		7,8,9,11	100	0						
-44		14,15,18,24	100	0						
-46		18,18,19,17	100	0						
-48		11,14,17,17	100	0						
-50		14,16,16,14	100	0		50-52				
-52		11,12,12,13	100	0						
-54		17,18,13,14	100	0				SW	Sand: Tannish brown fine to medium clean SAND, moist.	
-56		13,10,10,9	92	0		56-58				
-58	▼	7,9,10,11	100	0					-wet	GW @ 57.5 feet
-60									-end of boring @ 58 feet	

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. AE05-SB02
DRILLING METHOD: 6 1/4" OD HSA

DATE: 8/22/98
ELEVATION: 630.20
COORDINATES: 4836.770N, 7357.91
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0						0-2		SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, fill, dry.	
-2		9,15,14,9	67	0	NA					
-4		6,6,5,5	63	1				CL/ ML	Silt: Brown clayey SILTwith little fine sand, little organic material, little black ash and cinder fragments, dry.	
-6		3,3,4,5	96	1						
-8		5,5,6,5	100	1				SP	Sand: Light brown fine to medium SAND with 1-2" lenses of clayey silt throughout sample, dry.	
-10		4,3,4,5	100	1.5		10-12			Sand: Brown fine to coarse SAND with trace fine gravel, some black cinders and ash, some black staining, moist.	
-12		5,4,5,6	100	1.5						
-14		4,6,7,8	79	1						
-16		5,4,4,4	83	1					Sand: Brown medium SAND with some fine to medium rounded gravel, some black staining, moist.	
-18		9,11,10,10	83	1						
-20		7,8,8,6	63	1					-wet	PW @ 20 feet
-22		4,7,9,7	58	0.5		22-24				
-24		19,15,11,13	63	0.5					Gravel and Sand: Mixed brown medium SAND and fine to medium GRAVEL no black staining present, moist to wet.	
-26		15,10,18,18	29	0				SP/ GP		
-28		9,9,10,13	63	0						
-30		17,14,9,9	75	0					Gravel and Sand: Mixed brown fine to medium SAND and fine to coarse GRAVEL, moist.	
-32		12,11,16,21	83	0						
-34		15,18,23,25	67	0		34-36				

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/22/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	630.20
BORING NO.	AE05-SB02	**COORDINATES:**	4836.770N, 7357.91
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		15,20,17,17	63	0				SP/ GP		
-38		11,10,13,17	83	0						
-40		9,18,30,27	83	0						
-42		12,9,7,8	83	0				SP	Sand: Yellowish brown fine to medium SAND with little fine gravel, moist.	
-44		8,11,11,11	83	0					Sand: Yellowish brown fine to medium clean SAND, moist.	
-46		11,18,18,21	83	0				ML	Silt: Brown SILT, moist.	
-48		19,16,15,14	92	0		48-50			Sand: Tannish brown medium SAND with little fine to medium gravel, moist.	
-50		11,11,16,17	71	0				SP	Sand: Tannish brown medium SAND with trace fine gravel, moist.	
-52		10,11,12,10	71	0						
-54		10,13,20,16	75	0					-black staining	
-56		10,12,17,18	58	0					Sand: Brown medium clean SAND with little fine to medium gravel, black staining, moist.	
-58		18,15,11,14	83	0		58-60				
-60	▼	9,910,10	79	0					-wet	GW @ 59.5 feet
-62									-end of boring @ 60 feet	

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. AF05-SB01
DRILLING METHOD: 6 1/4" OD HSA

DATE: 8/21/98
ELEVATION: 601.50
COORDINATES: 4936.127N, 7569.76
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0										
-2		3,4,5,6	75	0	N/A	0-2		ML	Silt: Brown sandy SILT with trace fine gravel, some organics and cinder, moist.	
-4		6,7,6,6	75	0				ML/CL	Clay: Brown silty CLAY, moist.	
-6		4,5,1,8	83	0						
-8		6,8,9,11	63	0					Clay: Light brown to brown silty CLAY with trace fine gravel.	
-10		4,5,6,7	75	0		10-12				
-12		7,7,9,10	87.5	0						
-14		4,6,9,11	83	0				CL	Clay: Light brown to brown CLAY with trace silt, moist.	
-16		4,6,12,10	88	0				ML/CL	Clay: Light brown to brown silty CLAY, moist.	
-18		5,5,7,7	92	0						
-20		5,4,6,8	100	0		20-22		CL	Clay: Light brown to brown CLAY with trace fine sand, moist.	
-22		3,3,5,5	92	0						
-24		5,8,9,10	92	0				SP	Sand: Light brown to brown SAND with trace fine gravel.	
-26		10,11,9,7	92	0				SM	Sand: Brown, silty, fine to medium SAND with some fine to coarse gravel, moist.	
-28		4,4,5,7	92	0				SL	Sand: Light brown to brown clayey fine SAND, moist.	
-30	▼	5,5,4,4	92	0		30-32		SW	Sand: Light brown to brown clean fine sand, becomes moist to wet.	GW @ 30 feet
-32		4,3,3,5	88	0				SP	Sand: Light brown to brown fine SAND with trace clay, gravel and silt, wet.	
-34									-end of boring @ 32 feet	

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. AH05-SB01
DRILLING METHOD: HAND AUGER

DATE: 10/12/98
ELEVATION: 601.50
COORDINATES: 4901.830N, 7926.98(
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		NA		ND	NA	0-2		SM	Sand: Brown clayey SAND, some organics, grades to a clayey SILT at 2 feet, dry.	
-2			100					ML	Silt: Brown clayey SILT with some grey mottling, some organics, dry.	
-4			100			4-6				
-6									-end of hand auger @ 6 feet	
-8										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	629.79
BORING NO.	AI10-SB02	**COORDINATES:**	3849.359N, 8054.88
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		NA		ND	NA	0-2		ML	Topsoil: TOPSOIL	
-2			100						Silt: Brown clayey SILT with little fine sand, little fine to medium gravel, dry.	
-4									-end of hand auger @ 2 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	629.84
BORING NO.	AP10-SB01	**COORDINATES:**	3782.663N, 9147.80'
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		NA		ND	NA	0-2		SP	Topsoil: TOPSOIL	
-2			100						Sand: Tannish brown silty fine SAND with little clay and some fine to coarse gravel, dry.	
-4									-end of hand auger @ 2 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	630.50
BORING NO.	G17-SB02	**COORDINATES:**	2717.157 N, 2588.0
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		N/A		ND	NA	0-2		ML	Gravel: Pea GRAVEL, dry.	
-2			100						Silt: Brown to dark brown gravelly SILT, dry.	
-4									-end of hand auger @ 2 feet	

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. K04-SB01
DRILLING METHOD: 6 1/4" OD HSA

DATE: 10/12/98
ELEVATION: 594.50
COORDINATES: 5012.601N, 3351.78
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Topsoil: TOPSOIL	
-2		10,10,15,17	83	0	0	0-2		MC	Silt: Brown clayey SILT, micaceous, dry.	
-4		18,20,20,20	67	0	0			ML	Silt: Brown clayey SILT with some organics, dry.	
-6		14,13,12,12	92	0	0				Silt: Brown clayey SILT, moist.	
-8		9,11,11,10	67	0	0					
-10		5,8,8,11	75	0	0					
-12	▼	4,3,3,3	75	0	0					
-14		2,2,2,3	100	0	0	12-14			-wet	GW @ 13 feet
-16		2,2,2,2	71	0	0				-end of boring @ 16 feet	
-18										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	593.40
BORING NO.	L04-SB01	**COORDINATES:**	5035.065N, 3481.47
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0										
-2		4,4,4,5	75	0	0	2-4		MH	Topsoil: TOPSOIL Silt: Brown clayey SILT with some fine to medium gravel, micaceous, dry.	
-4		6,9,10,10	75	0	0					
-6		4,4,6,7	100	0	0					
-8		3,3,4,3	100	0	0	8-10				
-10	▼	3,4,5,7	96	0	0			CL	Clay: Brown silty CLAY with little fine sand, wet.	GW @ 11 feet
-12		4,4,4,4	100	0	0				-end of boring @ 12 feet	
-14										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	627.83
BORING NO.	L08-SB02	**COORDINATES:**	4304.435N, 3513.00(
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		NA		ND	NA	0-2		GW	Gravel: Pea GRAVEL, dry.	
-2			100					SM	Sand: Brown silty fine to medium SAND with little clay, dry.	
-4									-end of hand auger @ 2 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	626.10
BORING NO.	L09-SB02	**COORDINATES:**	4022.455N, 3411.25
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		NA		ND	NA	0-2		SP	Gravel: Pea GRAVEL, dry.	
-2			100						Sand: Brown silty fine to medium SAND with little clay, dry.	
-4									-end of hand auger @ 2 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	592.90
BORING NO.	M04-SB04	**COORDINATES:**	5084.294N, 3682.51
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Topsoil: TOPSOIL	
-2		10,12,15,13	67	0	0	0-2		ML	Silt: Brown clayey SILT, 1 inch cinder layer, some organics,dry.	
-4		10,10,10,12	67	0	0					
-6		6,6,9,11	67	0	0			MH	Silt: Brown clayey SILT, micaceous, moist.	
-8		5,5,6,9	83	0	0					
-10		5,6,7,9	100	0	0			SP	Sand: Brown clayey fine SAND, moist.	
-12	▼	3,3,3,2	100	0	0	10-12			-wet, end of boring @ 12 feet	GW @ 12 feet
-14										

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SOIL TEST BORING LOG

PROJECT: Washington Works RFI
JOB NUMBER: D6W7205-4
BORING NO. M04-SB05
DRILLING METHOD: 6 1/4" OD HSA

DATE: 10/12/98
ELEVATION: 593.50
COORDINATES: 5033.526N, 3755.694
GEOLOGIST: J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Fill: FILL	
-2		14,15,16,4	75	1	0			CL	Clay: Brown silty CLAY with some fine to coarse gravel, fine to coarse sand and black staining, dry.	
-4		9,6,7,8	67	0	0	2-4			Clay: Brown silty CLAY with some fine to medium gravel, black staining, and ash, moist at base of spoon.	
-6		5,5,4,3	83	60	0				Clay: Brown silty CLAY with some grey mottles, moist.	
-8		5,5,5,3	75	35	0	6-8			Clay: Brown silty CLAY with trace fine sand, micaceous, moist.	
-10		6,4,3,3	100	20	0				Clay: Brown silty CLAY with increasing fine sand, moist.	
-12		3,3,3,5	100	4	0				-wet, end of boring @ 14 feet	GW @ 14 feet
-14	▼	2,2,2,2	100	4	0	12-14				
-16										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/29/30
JOB NUMBER:	D6W7205-4	**ELEVATION:**	628.90
BORING NO.	M06-SB02	**COORDINATES:**	4712.877N, 3765.51
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0										
-2		25,18	75	0	ND			GM	Gravel and Sand: Brown fine to medium SAND and fine to coarse GRAVEL, dry.	
-4		18,12,11,10	100	0		2-4			Sand and Silt: Brown to tannish brown mix of fine sandy SILT and fine silty SAND, dry.	
-6		3,5,5,7	75	1						
-8		4,6,6,6	100	0				SM	Sand: Brown to tannish brown silty fine SAND with little fine to medium gravel, dry.	
-10		6,4,5,5	100	0		8-10				
-12		6,6,5,5	100	0				SW	Sand: Tannish brown, fine to medium SAND with trace fine to coarse gravel, moist.	
-14		NA	100	0		Shelby				
-16		3,6,4,3	100	0					Sand: Tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-18		6,3,3,3	83	0						
-20		ND	100	0						
-22		15,16,19,20	100	0		20-22				
-24		16,16,16,23	75	0					Sand: Brown to tannish brown fine to medium SAND with trace fine to coarse gravel,moist.	
-26		14,13,11,11	100	0						
-28		7,7,12,11	100	0						
-30		7,8,9,9	100	0						
-32		9,9,9,9	100	0					Sand: Brown to tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-34		6,6,8,9	50	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/29/30
JOB NUMBER:	D6W7205-4	**ELEVATION:**	628.90
BORING NO.	M06-SB02	**COORDINATES:**	4712.877N, 3765.517
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		9,9,10,11	50	0				SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-38		9,10,12,12	71	0				SW	Sand: Brown to tannish brown fine to medium clean SAND with little fine to medium gravel, moist.	
-40		10,10,12,15	100	0						
-42		12,13,14,15	100	0		40-42			- 1 inch charcoal seam	
-44		9,10,10,10	100	0						
-46		19,18,20,20	92	0					Sand: Brown to tannish brown fine to medium clean SAND with trace fine gravel, moist.	
-48		8,10,11,11	100	0						
-50		20,21,23,28	100	0						
-52		25,25,26,28	100	0						
-54		20,26,19,18	92	0						
-56		10,12,12,12	83	0					Sand: Brown to tannish brown fine to medium SAND with little fine to coarse gravel, moist.	
-58		4,7,7,12	100	3						
-60		10,21,23,33	96	2						
-62		20,22,25,31	92	2					Sand: Brown to tannish brown fine to medium SAND with some fine to medium gravel, moist.	
-64		ND	100	1					Sand: Brown to tannish brown fine to medium SAND with trace fine gravel, moist.	
-66	▼	14,16,17,20	87	4					-wet	GW @ 67 feet
-68		14,16,17,10	100	2		66-68			-end of boring @ 68 feet	
-70										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	592.40
BORING NO.	N04-SB01	**COORDINATES:**	5107.503N, 3870.06
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Topsoil: TOPSOIL	
-2		8,10,13,14	71	1	0	0-2		ML	Silt: Brown to tannish brown clayey SILT with orange and grey mottles, some organics, dry.	
-4		15,15,15,9	0	0	0				Silt: Brown clayey SILT with some organics, dry.	
-6		8,7,8,8	75	0	0					
-8		ND	ND	0	0			MH	Clay: Brown silty CLAY with trace fine sand, micaceous, moist.	
-10		7,7,8,7	67	0	0					
-12		4,5,6,5	67	0	0				Clay: Brown silty CLAY with increasing fine sand, moist.	
-14	▼	ND	100	0	0	12-14			-wet, end of boring @ 14 feet	GW @ 14 feet
-16										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	636.22
BORING NO.	N20-SB01	**COORDINATES:**	2103.759N, 3862.954
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		N/A		ND	NA	0-2		ML	Topsoil: TOPSOIL	
-2			100						Silt: Brown clayey SILT with some fine to coarse gravel, micaceous, moist.	
-4									-end of hand auger @ 2 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/11/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	591.80
BORING NO.	004-SB02	**COORDINATES:**	5133.657N, 4085.902
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Topsoil: TOPSOIL	
-2		2,3,16,18	71	0	ND	0-2		ML	Silt: Brown clayey SILT with little fine sand, moist.	
-4		13,14,8,8	58	0						
-6		5,6,8,10	42	0						
-8		5,4,8,8	75	0		6-8		CL	Clay: Brown silty CLAY with little organics, moist.	
-10		3,3,5,5	83	0						
-12		3,3,4,5	100	0						
-14	▽	1,3,3,5	100	0					Clay: Brown silty CLAY with little fine sand, moist.	GW @ 15 feet
-16		3,1,3,5	100	0		14-16			-wet	
-18									-end of boring @ 16 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	596.50
BORING NO.	004-SB03	**COORDINATES:**	5029.223N, 3979.834
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0										
-2		6,8,8,10	67	0	0	0-2		SP	Sand: Tan silty fine to medium SAND with some fine to coarse gravel with little clay, dry.	
-4		5,5,12,18	50	0	0				-some ash and cinders	
-6		3,7,5,6	83	0	0			CL	Clay: Brown silty CLAY with some grey mottles, moist.	
-8		4,7,8,10	83	0	0					
-10		5,5,8,10	75	0	0					
-12		6,8,10,13	83	0	0	10-12				
-14		3,5,6,10	67	0	0					
-16	▼	4,5,5,6	100	0	0	14-16			-wet	GW @ 16 feet
-18		2,3,3,4	100	0	0				-end of boring @ 18 feet	
-20										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	631.32
BORING NO.	P14-SB01	**COORDINATES:**	2906.597N, 4201.939
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		N/A		ND	NA	0-2		ML	Topsoil: TOPSOIL	
-2			100						Silt: Brown clayey SILT with some fine sand and organics, dry.	
-4									-end of hand auger @ 2 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/11/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	591.30
BORING NO.	Q04-SB03	**COORDINATES:**	5172.391N, 4498.52
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Topsoil: TOPSOIL	
-2		2,3,3,2	83	0	0	0-2		SP	Sand: Brown to dark brown silty fine SAND with little clay, some organics, moist.	
-4		3,14,15,13	71	0	0			MH	Silt: Grey clayey SILT, micaceous, moist.	
-6		9,3,4,4	50	0	0				-increasing clay content	
-8		3,2,3,5	100	0	0			CL	Clay: Grey and brown silty CLAY with black and grey staining, strong odor, layers of white creamy substance throughout.	
-10	▼	3,3,2,3	100	2	0	8-10			Clay: Grey and brown silty CLAY, white creamy and solid substance throughout, increasing black staining, moist.	GW @ 10 feet
-12		3,2,2,2	100	2	0				-wet	
-14									-end of boring @ 12 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/11/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	592.20
BORING NO.	S04-SB02	**COORDINATES:**	5172.757N, 4838.632
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Topsoil: TOPSOIL	
-2		4,4,4,3	75	0	0	0-2		OH	Clay: Dark brown silty CLAY with some organics,moist.	
-4		4,4,4,3	71	1	0				Clay: Black and grey silty CLAY, stained, with thin, white, creamy lenses, strong odor, moist.	
-6		3,3,4,4	63	1	0					
-8		3,3,4,5	75	2	0			CL	Clay: Black and grey silty CLAY, stained, with some organics, strong odor, creamy lenses, moist.	
-10		3,5,6,5	100	0	0	8-10			Clay: Brown CLAY with black and grey staining, strong odor, white solid inclusions, moist.	
-12		3,2,5,7	100	1	0					
-14		3,3,6,5	100	2	0				Clay: Brown CLAY with little fine sand, grey and black staining, white solid inclusions, strong odor, inclusions and staining decreasing towards base of spoon, moist.	
-16		5,5,5,8	100	2	0					
-18	▼	2,2,3,4	100	1	0				Clay: Brown CLAY with little fine sand, orange and grey mottles, moist.	GW @ 19 feet
-20		4,3,3,2	83	0	0	18-20			-wet	
-22									Clay: Brown and grey CLAY with little fine sand, little grey staining, trace white inclusions, moist.	
									-end of boring @ 20 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/10/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	594.40
BORING NO.	T04-SB01	**COORDINATES:**	5170.127N, 5088.511
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Topsoil: TOPSOIL	
-2		4,5,7,7	50	0	NA	0-2		ML	Silt: Brown clayey SILT with some medium to coarse gravel, dry to moist.	
-4		6,6,7,9	63	0						
-6		3,3,4,5	75	0					Silt: Brown clayey SILTwith little organics, micaceous, moist.	
-8		3,6,4,5	75	0						
-10		3,4,5,7	83	0				CL	Clay: Brown silty CLAY with some organics, some ash fragments, moist.	
-12		3,3,4,4	83	0		10-12			Clay: Brown silty CLAY, moist.	
-14		4,5,5,5	92	0						
-16	▽	5,5,6,8	100	0					-wet	GW @ 16.5 feet
-18		3,4,5,4	100	0		16-18			-end of boring @ 18 feet	
-20										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/05/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	631.72
BORING NO.	T14-SB01	**COORDINATES:**	3083.961N, 5058.620
DRILLING METHOD:	HAND AUGER	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0		N/A	100	ND	NA	0-2		SM	Sand: Brown to dark brown silty fine to medium SAND with little fine to medium gravel, little clay, dry, fill.	
-2			100						-end of hand auger @ 2 feet	
-4										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/29/30
JOB NUMBER:	D6W7205-4	**ELEVATION:**	592.70
BORING NO.	V04-SB01	**COORDINATES:**	5171.725N, 5502.927
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0									Topsoil: TOPSOIL	
-2		10,15,15,12	100	0	0	0-2		MH	Silt: Brown fine sandy SILT with little clay, some organics, some staining and some ash and cinder, dry.	
-4		16,15,10,10	71	0	0					
-6		6,7,5,5	75	0	0	4-6			Silt: Brown clayey SILT with little fine to medium gravel, some organics, micaceous, 2 inch layer of crushed shale, moist.	
-8		4,7,8,8	54	0	0				Silt: Dark brown clayey SILT, micaceous, moist.	
-10		4,5,4,4	92	0	0			CL	Clay: Brown silty CLAY with trace organics, micaceous, moist.	
-12		5,7,7,9	83	0	0				Clay: Brown CLAY, moist.	
-14		3,3,3,4	83	0	0					
-16		5,5,6,6	100	0	0					
-18	▼	3,3,3,3	100	0	0				-wet	GW @ 18 feet
-20		3,3,4,3	100	0	0	18-20			-end of boring @ 20 feet	
-22										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/20/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	595.80
BORING NO.	Y04-SB01	**COORDINATES:**	5131.112N, 6153.68(
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0								SM	Silt: Brown sandy SILT, some fine to coarse gravel, dry.	
-2		4,6,5,8	50	0	NA					
-4		6,6,7,7	29	0		2-4		CL	Clay: Brown to reddish brown silty CLAY, moist.	
-6		4,4,7,7	83	0						
-8		4,3,5,6	92	0						
-10		3,3,3,4	92	0		8-10			Clay: Brown to tan soft CLAY, with some lenses of fine sand, moist.	
-12		4,4,5,5	100	0		10-12		SM	Sand: Tannish brown silty fine SAND with little clay, soft, grades to clay, moist to wet.	
-14		4,3,3,5	100	0						
-16		3,2,2,3	100	0				CL	Clay: Brown and grey CLAY with little organics, micacious, gleyed, moist.	PW @ 15 feet
-18		2,2,2,3	100	0						
-20		3,3,4,3	100	0		18-20				
-22		1,2,2,5	100	0					Clay: Brown and grey CLAY with some organics, some fine to medium gravel, moist.	
-24		3,7,10,10	83	0						
-26		7,8,5,5	67	0				SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, moist to wet.	PW @ 25 feet
-28		3,4,6,8	92	0				CL	Clay: Brown and grey CLAY with little fine to coarse gravel, moist, micaceous.	
-30	▼	3,5,6,4	71	0				SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, black organic and iron staining, moist.	GW @ 31 feet
-32		3,2,3,2	92	0		30-32			-wet	
-34									-end of boring @ 32 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/15/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	629.20
BORING NO.	Z06-SB03	**COORDINATES:**	4797.508N, 6302.412
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0								ML	Concrete: CONCRETE	
-2		8,7	50	0	NA	0-2			Silt: Brown fine sandy SILT, dry.	
-4		6,6,7,8	50	1					-wet	PW @ 3 feet
-6		4,4,4,5	100	0		4-6		ML/ SM	Sand and Silt: Brown fine sandy SILT and silty fine SAND, moist.	
-8		4,4,5,6	100	1						
-10		4,3,6,5	100	0				SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-12		3,4,4,3	88	0		10-12				
-14		4,3,5,4	50	0						
-16		no data	29	11		14-16				
-18		6,4,4,6	75	0						
-20		4,8,11,9	42	0						
-22		2,4,4,5	33	0		20-22		SP/ GP	Gravel and Sand: Brown fine to medium SAND and fine to coarse GRAVEL, moist.	
-24		7,8,14,9	58	0						
-26		4,4,4,3	75	0				GP	Gravel: Brown fine to coarse GRAVEL with some medium to coarse sand, moist.	
-28		4,4,5,6	83	0				SP	Sand: Brown fine to medium SAND with some fine to medium gravel, moist.	
-30		6,8,10,13	75	0				GP/ SP	Gravel and Sand: Brown fine to coarse GRAVEL and fine to coarse SAND, moist.	
-32		13,19,21,23	92	0				GP	Gravel: Brown medium to coarse GRAVEL with some fine to medium sand, moist.	
-34		25,25,21,22	42	0				SP/	Gravel and Sand: Brown fine to coarse SAND	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/15/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	629.20
BORING NO.	Z06-SB03	**COORDINATES:**	4797.508N, 6302.412
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		22,30,25,21	75	0				GP	and fine to coarse GRAVEL, moist.	
-38		16,18,21,23	83	0				SP	Sand: Tan to brown fine to coarse clean SAND with trace fine gravel, moist.	
-40		12,18,23,29	100	0						
-42		8,9,12,12	75	0		40-42				
-44		28,25,27,30	92	0						
-46		18,17,10,15	100	0				SP	Sand: Tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-48		22,24,28,26	96	0						
-50		14,18,16,21	100	0						
-52		18,19,23,25	88	0						
-54		12,13,12,15	100	0				SM	Sand: Brown to tannish brown silty fine SAND with thin charcoal lens, moist.	
-56		12,18,17,19	83	0				SP	Sand: Brown to tannish brown fine to medium SAND with some fine to medium gravel, moist.	
-58		25,23,30,40	67	0						
-60		18,18,14,16	100	0						
	▼								-wet	GW @ 61 feet
-62		8,9,9,9	92	0		60-62			-end of boring @ 62 feet	
-64										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/11/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	633.12
BORING NO.	Z06-SB04	**COORDINATES:**	4635.709N, 6322.851I
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
0										
-2		2,2	50	0	NA	0-2		OL	Concrete: CONCRETE Silt: Brown to orange brown SILT with some grey and orange mottling, micaceous, moist.	
-4		4,4,6,6	75	0						
-6		4,6,7,8	0	0						
-8		3,3,5,4	92	0						
-10		3,3,5,3	100	1				ML	Silt: Brown SILT with 1-2 inch lenses of fine sand, micaceous, moist.	
-12		3,2,3,4	100	0.5		10-12				
-14		4,3,4,2	96	1						
-16		3,3,5,6	71	1				SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, black organic staining, moist.	
-18		4,4,4,3	58	1						
-20		3,3,5,5	25	1					-wet	PW @ 20 feet
-22		6,3,2,4	42	0.5		20-22				
-24		6,5,6,7	0	0				SP	Sand: Tannish brown fine to coarse SAND, with trace fine to coarse gravel, moist to wet.	
-26		4,4,5,4	67	0						
-28		2,3,4,2	83	0						
-30		4,4,4,6	0	0						
-32		4,6,6,5	0	0						
-34		8,13,11,16	17	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/11/98
JOB NUMBER:	D6W7205-4	**ELEVATION:**	633.12
BORING NO.	Z06-SB04	**COORDINATES:**	4635.709N, 6322.85
DRILLING METHOD:	6 1/4" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	NOTES
-36		26,22,29,24	50	0				GP/ SP	Gravel and Sand: Brown silty fine to medium SAND and fine to coarse GRAVEL, moist.	
-38		12,14,22,15	83	1						
-40		16,14,18,21	83	0						
-42		18,29,36,22	67	0		40-42		SP	Sand: Tannish brown to brown fine to medium clean SAND with little fine to medium gravel, moist.	
-44		15,33,22,21	67	0						
-46		10,18,24,31	96	0						
-48		17,15,22,21	100	0						
-50		16,31,33,26	92	0						
-52		16,24,17,14	100	0						
-54										
-56										
-58										
-60										
-62		14,22,36,27	92	0						
-64		28,20,28,30	100	0						
-66	▼	22,26,17,14	100	0		64-66			-wet	GW @ 65.5 feet
-68									-end of boring @ 66 feet	

APPENDIX F

WELL CONSTRUCTION DIAGRAMS

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/20/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	597.40
WELL ID:	AA04-MW01/TW-70	**COORDINATES:**	5117.257N, 6402.185
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0								ML	Silt: Brown SILT with some fine gravel, dry	
-2		8,17,20,8	58	0	NA	0-2				
-4		6,6,6,5	67	0					Clay: Grey CLAY, some organics,moist.	
-6		2,2,3,5	100	10		6-8			-some black staining, trace sand.	
-8		2,2,3,4	100	70				CL		
-10		3,3,3,4	100	50					-becomes wet	
-12		1,2,1,1	100	40					Clay: Grey to brownish grey fine sandy CLAY with some organics, moist.	
-14		1,2,1,1	100	40		14-16		CL		
-16		1,1,1,1	100	10					-moist to wet	
-18		1,1,2,2	100	7				CL	Clay: Grey silty CLAY, with trace sand, moist to wet.	
-20		3,2,3,8	100	40				SL	Sand: Brown clayey fine SAND with some fine to medium gravel, moist to wet.	
-22		3,5,5,6	75	60				SP	Sand: Brown toTan medium to coarse SAND with some fine to medium gravel, moist to wet, soft, black organic staining noted in spoon.	
-24		6,6,6,8	67	200					Sand: Brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-26		6,6,5,5	63	50				SM		
-28	▼	5,4,4,5	42	40					-grades to coarse SAND, becomes wet.	
-30		4,5,6,6	33	40		30-32		SM	Sand: Brown fine to medium SAND with some fine to medium gravel, gravel well rounded, wet at 32 feet.	
-32		1,4,3,4	100	30					-wet, end of sampling @ 32 feet.	
-34										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/20/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	597.40
WELL ID:	AA04-MW01/TW-70	**COORDINATES:**	5117.257N, 6402.18
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-36										
-38										
-40										
-42										
-44									-end of boring @ 43 feet.	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/23/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.80
WELL ID:	AA05-MW01/TW-71	**COORDINATES:**	4897.522 N, 6533.95
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0						0-2		ML	Topsoil: TOPSOIL	
-2		4,5,5,4	83	0	NA				Silt: Brown fine sandy SILT with orange and grey mottles, dry.	
-4		5,4,4,4	100	1						
-6		3,4,3,3	100	1		4-6			Silt: Brown moist sandy SILT with some layers of silty fine sand, moist.	
-8		3,4,3,5	100	1						
-10		3,3,3,6	100	0		8-10		MH	Sand: Brown silty fine SAND, micaceous, moist.	
-12		4,5,4,6	100	0				SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, micaceous, moist.	
-14		3,5,3,3	50	0						
-16		6,9,5,4	0	0					-moist to wet, perched water zone	
-18		4,4,7,5	54	1		16-18			Sand: Brown silty fine to medium SAND with some fine to medium gravel, moist.	
-20		5,5,6,8	63	1					Sand: Brown to tannish brown fine to medium SAND with trace fine to medium gravel, some charcoal layers, moist.	
-22		7,8,11,14	54	1		20-22				
-24		7,6,6,7	75	1					Sand: Brown to tannish brown fine to coarse SAND with some fine to coarse gravel, moist.	
-26		7,12,13,19	58	0						
-28		18,19,26,31	67	0						
-30		12,14,19,21	75	0						
-32		13,15,16,15	75	0						
-34		26,30,32,32	0	0						
-36		33,35,36,30	63	0						
-38		14,20,21,20	67	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/23/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.80
WELL ID:	AA05-MW01/TW-71	**COORDINATES:**	4897.522 N, 6533.9
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-40		6,6,7,8	58	0					Sand: Brown to tannish brown fine to coarse SAND with some fine to coarse gravel, moist.	
-42		12,10,11,13	58	0		40-42				
-44		41,35,39,40	0	0						
-46		18,16,19,20	96	0					Sand: Brown to tannish brown fine to medium SAND with trace fine to medium gravel, moist.	
-48		12,16,23,20	75							
-50		12,9,10,11	83							
-52		18,12,20,10	83							
-54		8,9,10,10	96					SP	Sand: Tannish brown fine to medium clean SAND, moist.	
-56		12,8,9,15	100						Sand: Tannish brown fine to medium SAND with trace fine to coarse gravel, moist.	
-58		9,9,14,20	83							
-60	▽	9,10,12,15	92						-wet	
-62		14,14,16,18	83			60-62			-end of sampling @ 62 feet	
-64										
-66										
-68										
-70									-end of boring @ 70 feet	
-72										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/4/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.60
WELL ID:	AB07-MW02/TW-72	**COORDINATES:**	4552.156N, 6666.654
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0						0-2		SM	Sand: Brown fine silty SAND, some fine gravel, dry.	
-2		2,3,3,4	67	15	NA					
-4		3,4,3,4	92	2		4-6		ML	Silt: Brown fine sandy SILT with orange and grey mottles, moist.	
-6		4,6,5,5	100	2						
-8		4,5,6,6	100	1				ML/ SM	Sand and Silt: Brown fine sandy SILT and silty fine SAND, moist.	
-10		3,4,5,6	96	1		10-12		ML	Silt: Brown fine sandy SILT, moist	
-12		5,5,6,5	100	1				ML/ SM	Sand and Silt: Brown to tan mixed bands of fine sandy SILT and silty fine SAND, moist.	
-14		4,5,7,6	92	5		14-16				
-16		6,8,11,13	50	1				SM	Sand: Brown silty fine to coarse SAND with some fine gravel, moist to wet.	
-18		3,4,5,7	25	ND				SM	Sand: Dark brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-20		5,7,7,8	50	2		20-22		SP	Sand: Brown to dark brown fine to coarse SAND with trace fine gravel, moist.	
-22		4,5,4,4	79	ND						
-24		6,6,6,8	63	1						
-26		7,6,7,8	75	0.5				SP	Sand: Brown fine to medium SAND with some fine to medium gravel, moist.	
-28		7,8,12,14	25	ND						
-30		9,7,11,11	83	ND				SP	Sand: Tannish brown fine to coarse SAND with some fine gravel, moist.	
-32		8,12,16,18	63	ND						
-34		21,36,38,42	83	ND						
-36		22,29,33,37	83	0.5						
-38		14,12,18,21	75	1						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/4/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.60
WELL ID:	AB07-MW02/TW-72	**COORDINATES:**	4552.156N, 6666.654
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-40		16,20,22,20	83	ND		40-42				
-42		23,29,34,33	58	ND					-charcoal seam	
-44		15,18,21,20	75	ND				SP	Sand: Tannish brown fine to coarse SAND with some fine gravel, moist.	
-46		26,31,34,39	100	1					Sand: Tannish brown fine to medium SAND with some trace gravel, moist.	
-48		26,30,34,38	92	1						
-50		28,18,19,20	75	1						
-52		18,17,20,27	83	ND						
-54		15,18,22,24	100	ND						
-56		16,18,20,19	100	ND						
-58		13,15,15,14	83	ND						
-60		10,7,11,14	92	ND		60-62			-wet	
-62	▼	13,14,14,16	50	ND					-end of sampling @ 62 feet	
-64										
-66										
-68										
-70										
-72									-end of boring @ 72 feet	
-74										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/9/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	633.20
WELL ID:	AC07-MW02/TW-73	**COORDINATES:**	4586.572N, 6877.972
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0						0-2		ML	Fill: Grey gravelly FILL, dry.	
-2		25,35,18,12	83	2	NA				Silt: Brown SILT with little fine sand, dry.	
-4		8,8,9,10	63	1						
-6		3,3,5,6	79	1					Silt: Brown SILT with trace fine to medium gravel and trace fine sand, moist.	
-8		2,3,4,3	96	2					Sand and Silt: Brown fine sandy SILT and silty fine SAND, moist.	
-10		4,3,3,5	100	0.5						
-12		4,3,3,5	96	1						
-14		2,4,3,3	83	1						
-16		3,4,4,5	83	1.5					Sand: Brown silty fine SAND,moist.	
-18		4,7,13,17	71	2		18-20			Sand: Brown silty fine SAND with some fine to medium gravel, moist to wet at 17 feet.	
-20		10,8,6,9	75	1					Silt: Brown SILT with trace fine gravel, wet to moist.	
-22		8,6,6,5	83	0					Sand: Brown coarse SAND with some fine gravel, trace silt, moist.	
-24		4,6,5,3	75	1					Sand: Brown silty fine to coarse SAND with some fine to coarse gravel, moist.	
-26		4,5,6,7	67	0.5						
-28		8,6,5,4	50	0.5						
-30		7,4,5,6	83	0.5						
-32		7,6,6,7	83	0.5						
-34		7,9,17,19	63	0						
-36		12,13,25,26	50	0						
-38		19,37,50,67	67	0					GRAVEL: Grey coarse GRAVEL with cobbles, dry.	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/9/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	633.20
WELL ID:	AC07-MW02/TW-73	**COORDINATES:**	4586.572N, 6877.97
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAI
-40		14,22,26,28	71	0					Sand: Tannish brown fine to coarse SAND with some fine to coarse gravel, moist.	
-42		25,36,47,35	83	0						
-44		13,14,25,29	96	0						
-46		23,27,30,27	71	0						
-48		8,14,13,18	88	0						
-50		7,10,20,21	75	0					Sand: Tannish brown fine to coarse SAND, moist.	
-52		18,17,27,22	100	0					Sand: Tannish brown fine to coarse SAND with some fine to coarse gravel, moist.	
-54		12,22,22,24	100	0						
-56		13,18,21,21	100	0						
-58		13,20,21,25	100	0						
-60		12,18,17,26	100	0						
-62		14,24,26,31	93	0		62-64				
-64	▼	21,13,18,22	93	0					-wet, end of sampling @ 64 feet	
-66										
-68										
-70										
-72										
-74									-end of boring @ 74 feet	
-76										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/6/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	629.51
WELL ID:	AE11-MW01/TW74	**COORDINATES:**	3710.885N, 7247.36
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRA
0									Asphalt: ASPHALT	
-2		5,5,6,12	75	0	NA	0-2		CL	Clay: Reddish brown silty CLAY with little fine to medium gravel, some orange and brown mottles, moist.	
-4										
-6		6,6,9,10	92	0						
-8										
-10								MH/ CH	Clay: Brown fine silty CLAY with trace sand, micaceous, moist.	
-12		3,5,6,7	100	0						
-14										
-16		9,10,7,7	87	0				SM	Sand: Brown to dark brown clayey fine SAND with some fine to coarse gravel, moist.	
-18										
-20										
-22		5,5,9,4	63	0					-charcoal lenses	
-24										
-26		4,6,6,6	71	0						
-28										
-30										
-32		15,16,12,10	42	0						
-34										
-36		19,8,9,11	67	0					Sand: Brown silty fine to medium SAND with some fine to medium gravel, moist.	
-38										

DUPONT

Corporate Remediation Group

An Alliance between
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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/6/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	629.51
WELL ID:	AE11-MW01/TW74	**COORDINATES:**	3710.885N, 7247.36
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRA
-40										
-42		12,14,12,10	75	0				SW	Sand: Brown to tannish brown fine to medium clean SAND with little fine gravel, moist.	
-44										
-46		30,19,23,30	75	0					Sand: Brown to tannish brown fine to medium clean SAND with some fine to coarse gravel, moist.	
-48										
-50								SM	Sand: Brown to tannish brown silty fine to coarse SAND with some fine to coarse gravel, moist.	
-52		15,18,23,30	75	0						
-54								SW	Sand: Brown to tannish brown fine to medium clean SAND with trace fine gravel, 1 inch charcoal seam, moist.	
-56		20,22,14,25	83	0						
-58										
-60									Sand: Light brown clean, fine SAND, moist.	
-62	▼	13,21,32,27	83	0		59-61			Sand: Tannish brown fine to medium SAND with some fine to coarse gravel, wet.	
-64									-wet, end of sampling @ 61 feet	
-66		16,19,16,21	100	0						
-68										
-70										
-72									-end of boring @ 74 feet	
-74										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/23/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	634.04
WELL ID:	AI06-SB01/TW-75	**COORDINATES:**	4756.006N, 8014.28
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0								CL	Clay: Brown and black silty, sandy CLAY with some fine to medium gravel, fill, dry.	
-2		4,9,8,7	83	0	NA	0-2				
-4		7,48/5 refusal	29	1						
-6		3,3,1,4	4	0					Clay: Grey to black organic silty CLAY, moist to wet.	
-8		1,2,1,2	100	0				SW	Sand: Grey medium to fine clean SAND, moist.	
-10		2,5,4,3	25	1						
-12		4,4,5,9	0	0					Sand: Tannish brown medium clean SAND with some thin clay lenses, moist.	
-14		4,7,6,5	75	0				SM	Sand: Brown to reddish brown silty medium SAND with some fine to coarse gravel, moist.	
-16		7,8,11,8	58	0						
-18		5,7,7,5	38	0						
-20		5,4,3,4	54	0		18-20				
-22		3,6,9,9	17	0						
-24		23,16,15,10	0	0				SM/ GM	Gravel and Sand: Brown silty fine to medium SAND and fine to coarse GRAVEL, moist.	
-26		5,7,11,9	38	0						
-28		14,15,15,20	46	0						
-30		8,10,8,10	63	0						
-32		5,6,10,17	83	0						
-34		15,26,24,22	0	0				SW	Sand: Tannish brown medium clean SAND with some fine to medium gravel, ash and cinders, moist.	
-36		11,11,9,12	79	0						
-38		13,20,12,14	[illegible]	0		36-38				

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	8/23/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	634.04
WELL ID:	AI06-SB01/TW-75	**COORDINATES:**	4756.006N, 8014.288
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-40		10,10,10,10	67	0						
-42		4,5,18,14	17	0					Sand: Yellowish brown to brown medium clean SAND with some fine to medium gravel, moist.	
-44		11,22,18,14	63	0						
-46		10,10,8,14	71	0						
-48		8,11,15,15	92	0						
-50		8,12,13,15	0	0		48-50				
-52		ND	54	0					Sand: Tan to brown medium clean SAND with some fine to coarse gravel, charcoal lenses, black organic staining, moist.	
-54		23,15,17,16	54	0						
-56		15,11,10,15	75	0						
-58		22,22,11,17	29	0						
-60		8,11,13,16	100	0						
-62	▼	6,10,10,10	92	0		60-62			-wet -end of sampling @ 62 feet	
-64										
-66										
-68										
-70										
-72									-end of boring @ 72 feet	
-74										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/7/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	623.50
WELL ID:	E13-MW01/TW-76	**COORDINATES:**	3242.769N, 2087.69
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0								MC	Silt: Light brown clayey SILT with some organics, some orange and grey mottles,dry.	
-2		5,12,12,8	100	0	NA	0-2				
-4										
-6		9,8,9,9	100	0						
-8										
-10									Silt: Brown clayey SILT, moist.	
-12		3,4,4,6	100	0						
-14								SW	Sand: Brown to tan fine to medium clean SAND with little fine to medium gravel, moist.	
-16		3,4,6,8	100	0						
-18										
-20								MH	Silt: Brown clayey SILT, micaceous, moist.	
								SW	Sand: Brown to tan fine to medium clean SAND with little fine to medium gravel, moist.	
-22		6,5,8,6	83	0						
-24									Sand: Brown to tannish brown fine to medium clean SAND with some fine to coarse gravel, moist.	
-26		28,10,6,3	58	0						
-28										
-30								SP	Sand: Brown to tannish brown fine to medium silty SAND with some fine to coarse gravel, moist.	
-32		10,15,16,21	58	0						
-34										
-36		16,18,25,32	79	0					Sand: Tan fine to coarse SAND with some fine gravel, thin charcoal lenses, moist.	
-38										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/7/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	623.50
WELL ID:	E13-MW01/TW-76	**COORDINATES:**	3242.769N, 2087.691
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-40								SW	Sand: Tan fine to coarse clean SAND, moist.	
-42		11,9,13,16	75	0					Sand: Tan fine to coarse clean SAND with some fine to coarse gravel, some charcoal lenses, moist.	
-44										
-46		3,22,29,41	87	0						
-48										
-50										
-52		17,19,20,23	75	0						
-54									Sand: Dark brown to black clean SAND with some fine to coarse gravel, moist.	
-56		13,12,14,16	75	0					Sand: Light brown fine to coarse clean SAND, moist.	
-58										
-60										
-62		5,7,7,10	75	0						
-64	▼							SP	-wet	
-66		11,16,20,25	100	0		64-66			Sand: Dark brown silty fine to coarse SAND with some fine to coarse gravel, wet.	
-68									-end of samplling @ 66 feet	
-70										
-72										
-74									-end of boring @ 74 feet	
-76										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/08/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.50
WELL ID:	G17-MW01/TW-77	**COORDINATES:**	2715.157N, 2587.01
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0						0-2		ML	Silt: Dark brown clayey SILT with some organics, moist.	
-2		2,1,2,2	42	0	NA					
-4										
-6		2,4,4,4	100	0						
-8										
-10										
-12		2,4,3,3	67	0						
-14										
-16		4,4,6,7	100	0						
-18										
-20								MH	Silt: Brown to reddish brown clayey SILT with little fine sand, micaceous, moist.	
-22		18,14,13,12	46	0						
-24										
-26		15,16,18,21	71	0				SP	Sand: Brown to tannish brown fine to medium clean SAND with little fine to medium gravel, thin charcoal lens, moist.	
-28										
-30										
-32		14,13,10,23	75	0						
-34										
-36		16,15,20,22	67	0						
-38										
-40										
-42		5,8,10,12	63	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/08/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.50
WELL ID:	G17-MW01/TW-77	**COORDINATES:**	2715.157N, 2587.013E
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-44										
-46		18,19,21,23	75	0					Sand: Brown to tannish brown fine to medium clean SAND with little fine to coarse gravel and thin charcoal lenses throughout, moist.	
-48										
-50									Sand: Brown to light brown fine to medium clean SAND with little fine to medium gravel, moist.	
-52		15,15,20,21	79	0						
-54									Sand: Brown to light brown fine to coarse SAND with some fine to medium gravel, moist.	
-56		19,20,23,26	83	0						
-58										
-60										
-62		23,25,27,20	83	0						
-64										
-66		28,35,40,40	71	0		64-66				
-68										
-70	▼								-wet	
-72		16,12,10,10	75	0					-end of sampling @ 72 feet	
-74										
-76										
-78										
-80									-end of boring @ 80 feet	
-82										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/25/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	629.85
WELL ID:	L06-MW01/TW-78	**COORDINATES:**	4745.733N, 3523.826
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0						0-2			Gravel: Pea GRAVEL, dry.	
-2		ND	75	0	NA			ML	Silt: Brown SILT, some black staining and orange and grey mottles, moist.	
-4		ND	33	5						
-6		ND	63	4					Silt: Brown SILT with trace fine to coarse gravel, some black staining, some orange and grey mottles, some ashes and cinders, moist.	
-8		ND	83	20						
-10		ND	100	10					Silt: Black stained clayey SILT with little fine sand, little fine to medium gravel, moist to wet.	
-12		4,3,3,3	50	70		10-12			Silt: Grey clayey SILT with orange and grey mottles, moist to wet.	
-14		1,2,2,4	38	50					Silt: Black stained clayey SILT with little fine to medium gravel, some organics, moist.	
-16		2,2,3,3	0	0						
-18		2,3,3,2	0	0						
-20		10,12,14,12	100	500						
-22		10,14,10,11	25	70					Silt: Grey, black and brown fine sandy SILT with trash debris, ash , bricks, ceramics, cinders, and little fine to medium gravel, moist.	
-24		12,10,13,15	83	70		22-24				
-26		14,15,16,18	42	70					Silt: Brown and grey fine sandy SILT with little fine to medium gravel, moist.	
-28		9,7,6,6	33	15						
-30		7,6,6,8	100	10					Silt: Brownish grey to orange clayey SILT with trace fine gravel, moist.	
-32		8,8,8,8	100	0				CL	Clay: Brown silty CLAY with trace fine gravel, moist.	
-34		13,14,16,10	100	1						
-36		7,6,6,7	100	0				ML	Silt: Brown clayey SILT with some grey mottles and trace fine gravel, moist.	
-38		6,6,7,9	100	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/25/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	629.85
WELL ID:	L06-MW01/TW-78	**COORDINATES:**	4745.733N, 3523.82(
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-40		10,10,11,12	100	0		38-40			-wet	
-42		Shelby Tube	100	0						
-44		6,8,11,12	100	0						
-46		6,8,8,9	100	0					Silt: Brown clayey SILT with some grey mottles and trace fine gravel, moist.	
-48		12,13,13,12	63	0						
-50		8,9,13,16	42	0				SM	Sand: Brown silty fine to medium SAND with trace fine to medium gravel, moist.	
-52		10,10,7,10	75	0						
-54		12,12,12,12	83	0						
-56		6,6,7,7	67	0						
-58		ND	100	0				SW	Sand: Brown to tannish brown fine to medium SAND with little silt and some fine to medium gravel, moist.	
-60		5,8,9,12	83	0						
-62		6,7,6,16	100	0						
-64		9,10,10,15	83	0						
-66	▼	18,25,20,22	100	0						
-68		ND	100	0		66-68			-wet -end of sampling @ 68 feet	
-70										
-72										
-74										
-76										
-78									-end of boring @ 77 feet	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/10/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	593.50
WELL ID:	M04-MW02/TW-79	**COORDINATES:**	5092.455N, 3773.015
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Topsoil: TOPSOIL	
-2		2,3,7,5	100	0	NA	0-2		ML	Silt: Brown clayey SILT with little fine to coarse gravel, dry.	
-4		7,5,3,4	50	0					Silt: Brown clayey SILT with little fine to coarse gravel, moist.	
-6		3,4,4,6	100	0				CL	Clay: Dark brown silty CLAY with some organics, small white plastic, "Zytel" pellets, moist to wet inside inclusions.	
-8		2,2,4,6	92	0					Clay: Brown CLAY with orange to grey mottles, moist.	
-10		5,5,6,6	83	0		8-10		CL/ SP	Clay: Brown CLAY with 6 inch grey clayey fine SAND lens, plastic inclusions, grades to sandy CLAY at base of spoon.	
-12		3,3,3,2	100	0				CL	Clay: Brown fine sandy CLAY, moist.	
-14	▽	2,1,3,2	100	0					-wet	
-16		4,4,4,6	100	0		14-16			-end of sampling @ 16 feet	
-18										
-20										
-22										
-24										
-26									-end of boring @ 25 feet	
-28										

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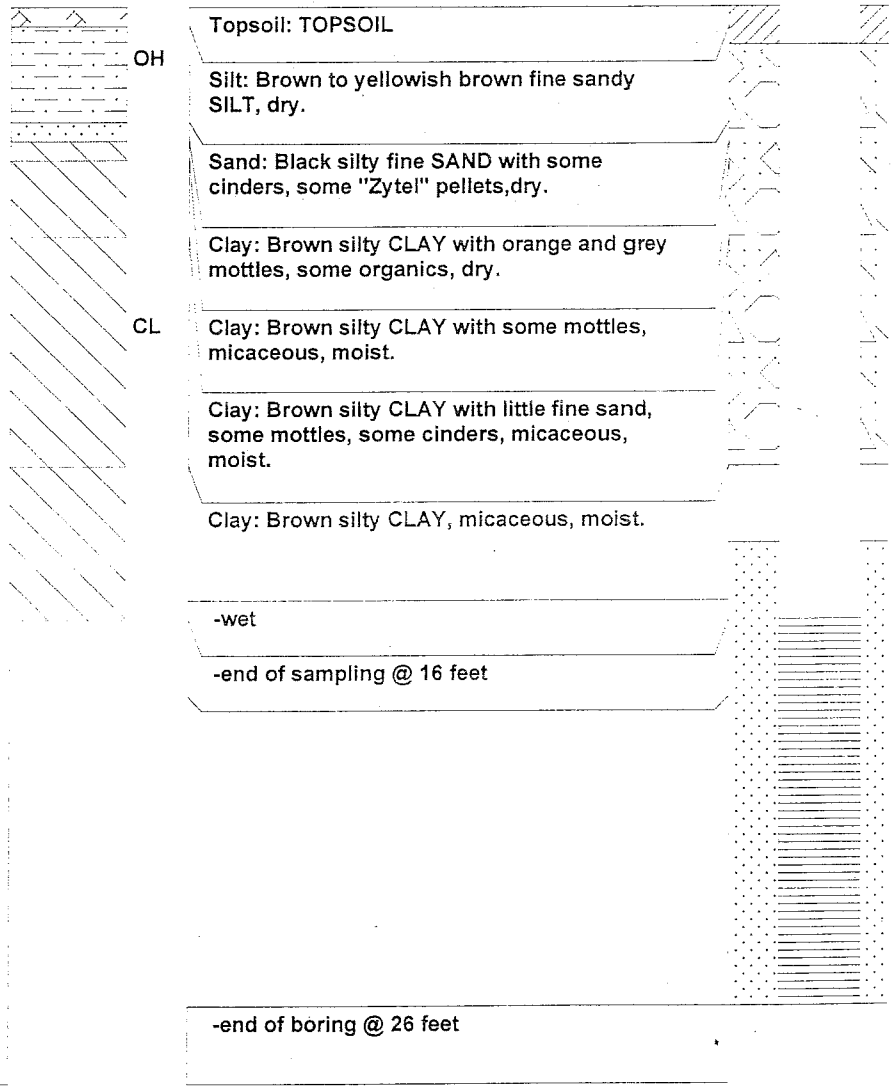
SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/10/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	593.60
WELL ID:	M04-MW03/TW-80	**COORDINATES:**	5058.274N, 3630.854
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Topsoil: TOPSOIL	
-2		3,4,8,10	58	0	NA	0-2		OH	Silt: Brown to yellowish brown fine sandy SILT, dry.	
-4		14,14,10,13	75	1					Sand: Black silty fine SAND with some cinders, some "Zytel" pellets,dry.	
-6		6,5,4,6	83	0					Clay: Brown silty CLAY with orange and grey mottles, some organics, dry.	
-8		2,2,2,3	83	0		6-8		CL	Clay: Brown silty CLAY with some mottles, micaceous, moist.	
-10		2,2,2,3	92	0					Clay: Brown silty CLAY with little fine sand, some mottles, some cinders, micaceous, moist.	
-12		3,3,3,6	96	0					Clay: Brown silty CLAY, micaceous, moist.	
-14		ND	100	0						
-16	▼	3,5,5,6	83	0		14-16			-wet	
-18									-end of sampling @ 16 feet	
-20										
-22										
-24										
-26									-end of boring @ 26 feet	
-28										



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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/09/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	593.60
WELL ID:	N04-MW02/TW-81	**COORDINATES:**	5025.718N, 3931.568
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0										
-2		2,4,8,15	100	0	NA	0-2		SM	Sand: Black and brown fine silty SAND with some cinders and some fine to coarse gravel, moist.	
-4		5,8,7,8	100	0				CL	Clay: Brown to reddish brown CLAY with orange and grey mottles, dry.	
-6		5,8,8,9	100	1					Clay: Brown CLAY with mottles, V shaped lens of black cinders at 7 feet, moist.	
-8		4,8,6,10	75	0					Clay: Brown silty CLAY, moist.	
-10		4,8,8,7	96	0		8-10			Clay: Brown CLAY with little fine sand, moist to wet at base of spoon.	
-12		4,4,5,5	96	0						
-14	▽	3,3,4,3	100	0				CH	Clay: Brown CLAY with some fine sand, micaceous, moist.	
-16		5,6,4,2	100	0		14-16			-wet, end of sampling @ 16 feet	
-18										
-20										
-22										
-24										
-26									-end of boring @ 26 feet	
-28										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/28/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	633.48
WELL ID:	N05-MW01/TW-82	**COORDINATES:**	4846.908N, 4012.888
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Concrete: CONCRETE	
-2		ND	75	0	NA			ML	Silt: Brown sandy SILT with some fine to coarse gravel, dry.	
-4		6,4,4,3	17	0		2-4				
-6		4,4,4,3	71	0						
-8		4,3,3,2	100	0				SW	Sand: Brown fine SAND, moist.	
-10		4,3,5,5	33	0				SM	Sand: Brown silty SAND, moist.	
-12		5,5,5,5	75	0				ML	Silt: Brown sandy SILT, moist.	
-14		3,3,4,5	100	0				SW	Sand: Brown silty fine clean SAND, moist.	
-16		4,5,6,9	100	0					Sand: Brown to tannish brown fine to medium clean SAND, moist.	
-18		5,7,7,8	75	0						
-20		7,7,7,8	75	0				SM	Sand: Brown fine to medium SAND with trace fine to coarse gravel, trace silt, moist.	
-22		6,4,7,6	58	0		20-22				
-24		4,4,4,6	29	0						
-26		4,3,2,3	63	0						
-28		9,8,10,16	63	0					Sand: Brown to tannish brown fine to coarse SAND with some fine to coarse gravel, moist.	
-30		10,14,14,14	75	0					Sand: Brown to tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-32		13,14,15,21	83	0						
-34		21,16,21,22	92	0					Gravel and Sand: Brown to tannish brown fine to coarse SAND and fine to coarse GRAVEL, moist.	
-36		21,22,23,22	25	0						
-38		35,36,35,40	63	0						
-40		20,21,21,21	100	0						
-42										

DUPONT

Corporate Remediation Group

An Alliance between
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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/28/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	633.48
WELL ID:	N05-MW01/TW-82	**COORDINATES:**	4846.908N, 4012.888
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
		19,20,21,23	50	0		40-42				
-44		20,12,25,18	38	0						
-46		9,5,4,6	38	0				GW	Gravel: Brown fine to coarse GRAVEL with some fine to coarse sand, moist to wet.	
-48		12,12,9,7	42	0						
-50		8,9,9,6	50	0						
-52		8,9,10,11	63	0				SW	Sand: Brown to tannish brown fine to coarse SAND with some fine to coarse gravel, wet.	
-54		10,11,8,6	63	0						
-56		12,12,10,8	75	0					Sand: Brown fine to medium SAND with trace fine to coarse gravel, moist.	
-58		12,11,10,11	75	0						
-60		12,12,13,14	83	0						
-62		10,11,10,10	92	0						
-64		9,9,10,10	58	0						
-66		10,12,13,13	92	0						
-68		12,15,15,18	100	0						
-70		25,25,25,25	100	0						
-72		17,17,17,18		0		70-72			-wet	
-74									-end of sampling @ 72 feet	
-76										
-78										
-80										
-82									-end of boring @ 82 feet	
-84										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/09/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	590.60
WELL ID:	P04-MW02/TW-83	**COORDINATES:**	5164.362N, 4318.016
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Topsoil: TOPSOIL	
-2		2,4,6,8	75	0	NA	0-2		ML	Silt: Brown fine sandy SILT with little clay, some organics, dry.	
-4		5,12,24,8	71	0					Silt: Brown clayey SILT with some organics, some orange and grey mottles, dry.	
-6		7,7,7,9	75	1				CL	Clay: Brown and grey silty CLAY with little organics, black and white staining/inclusions, moist.	
-8		3,3,3,4	100	5						
-10		3,3,3,3	100	10		8-10		CL/ SP	Clay: Brown to black/grey CLAY with lenses of viscous white and grey liquid, solid white and grey inclusions throughout, strong odor, moist.	
-12		3,3,3,3	100	5				CL		
-14	▽	1,3,3,4	100	5					-wet	
-16		1,2,2,2	100	5		14-16			-end of sampling @ 16 feet	
-18										
-20										
-22										
-24										
-26										
-28									-end of boring @ 28 feet	
-30										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/24/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	631.68
WELL ID:	P05-MW02/TW-84	**COORDINATES:**	4916.478N, 4186.44
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Fill: FILL, dry.	
-2		14,25	33	0	NA	2-4		SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, some black staining at bottom of spoon, moist.	
-4		20,20,17,7	75	0				ML	Silt: Brown SILT with trace fine sand, mostly fill-like material, some black staining throughout, moist.	
-6		25,39,20,15	83	0						
-8		5,8,10,5	96	0						
-10		4,4,4,4	100	0					Silt: Tannish brown fine sandy SILT, moist.	
-12		3,2,2,2	100	0						
-14		3,4,4,5	96	0				SM	Sand: Brown silty fine to medium SAND with little fine to medium gravel, moist.	
-16		6,5,5,4	92	0					Sand: Brown silty fine to coarse SAND with trace fine to coarse gravel, moist.	
-18		4,4,4,10	50	0						
-20		3,4,5,7	63	0						
-22		9,10,16,10	25	0				SW	Sand: Brown medium clean SAND with some fine to coarse gravel, moist.	
-24		8,9,9,10	75	0		22-24				
-26		12,12,11,9	58	1						
-28		12,12,11,9	50	0						
-30		10,15,16,18	75	0				SM/ GM	Gravel and Sand: Brown silty fine to medium SAND and fine to coarse GRAVEL, moist.	
-32		12,10,11,15	71	0				SM	Sand: Brown silty fine to coarse SAND with some fine to coarse gravel, moist.	
-34		9,10,18,15	63	0						
-36		15,18,15,16	71	0						
-38		18,25,30,35	0	0				SP	Sand: Brown fine to coarse SAND with some fine to coarse gravel, moist.	
-40		16,12,13,15	33	0						
-42										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/24/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	631.68
WELL ID:	P05-MW02/TW-84	**COORDINATES:**	4916.478N, 4186.441
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-44		25,26,25,28	0	0				SM/	Gravel and Sand: Brown silty fine to coarse SAND and fine to coarse GRAVEL, moist.	
		10,15,18,13	42	0		42-44		GM		
-46		13,12,14,20	50	1				SP	Sand: Brown to tannish brown fine to medium clean SAND with little fine to medium gravel, moist.	
-48		10,13,10,9	83	1						
-50		7,7,10,9	83	2						
-52		12,13,12,9	50	1						
-54		9,10,12,15	83	1						
-56		13,18,16,16	92	1						
-58		12,11,15,12	83	2						
-60		10,10,12,14	100	3						
-62		10,15,16,18	83	1						
-64		12,13,16,10	92	2						
-66		18,21,20,23	83	1						
-68		11,11,16,22	100	1						
-70	▼	11,12,11,15	100	1		68-70			-wet, end of sampling @ 70 feet	
-72										
-74										
-76										
-78										
-80									-end of boring @ 80 feet	
-82										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/09/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	593.20
WELL ID:	R04-MW02/TW-85	**COORDINATES:**	5155.551N, 4663.49(
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Topsoil: TOPSOIL	
-2		2,3,8,4	87	10	NA	0-2		OL	Silt: Brown clayey SILT with some organics, moist.	
-4		4,12,8,6	71	5					Silt: Black to dark brown clayey SILT with some organics, some fine to medium gravel, slag, moist.	
-6		3,3,4,6	67	2				OH	Clay: Brown and grey silty CLAY with orange mottles, some organics, moist.	
-8		2,3,5,5	100	2						
-10		2,3,5,5	0	10					Clay: Brown silty CLAY grading to CLAY, some organics, orange and grey mottles, moist.	
-12		3,4,5,6	100	5		10-12		CL		
-14		3,2,3,4	100	5					Clay: Brown CLAY, mottles, little organics, black and grey lenses of staining, moist.	
-16		3,3,3,4	100	5						
-18	▼	3,3,4,6	100	5					-wet	
-20		3,2,3,3	100	5		18-20			Clay: Brown CLAY with mottles, grey and black staining, moist.	
-22									- end of sampling @ 20 feet	
-24										
-26										
-28									-end of boring @ 28 feet	
-30										

DUPONT

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/26/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	631.18
WELL ID:	S05-MW02/TW-86	**COORDINATES:**	4966.835N, 4880.851
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0										
-2		ND	0	0	NA			GP	Gravel: Mixed GRAVEL and FILL, dry.	
-4		28,20,20,12	75	0		2-4		ML	Silt: Brown fine sandy SILT, trace black staining, some fine to coarse gravel, dry to moist.	
-6		5,3,5,5	79	0						
-8		13,5,6,5	67	1				SW	Silt: Light brown fine sandy SILT, moist.	
-10		8,3,3,4	75	1				SM	Sand: Tannish brown clean fine SAND, trace silt, moist.	
-12		10,11,12,13	100	0		10-12		SP	Sand: Tannish brown silty fine SAND with some fine to coarse gravel, moist.	
-14		16,17,15,19	75	1					Sand: Tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-16		18,19,20,23	83	0				SM	Sand: Brown to tannish brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-18		19,20,19,23	28	0				SP		
-20		20,23,23,21	83	1					Sand: Tannish brown fine to coarse SAND with some fine to coarse gravel, trace silt, moist.	
-22		6,12,15,20	50	0						
-24		14,13,14,14	83	0						
-26		19,20,22,22	63	0					Sand: Tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-28		10,10,12,16	58	0						
-30		14,16,17,16	100	0						
-32		10,11,12,12	92	0						
-34		20,22,23,25	75	0						
-36		25,24,25,25	92	0						
-38		10,12,13,16	96	0						
-40		12,12,12,12	83	0						
-42										

DUPONT

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/26/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	631.18
WELL ID:	S05-MW02/TW-86	**COORDINATES:**	4966.835N, 4880.851
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-44		19,18,20,19	100	0		40-42				
		20,23,22,22	71	0						
-46		10,8,10,10	67	0						
-48		18,15,16,19	54	0					Sand: Tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-50		19,19,21,23	79	0					-1 inch charcoal lens	
-52		12,16,15,13	50	0					Sand: Tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-54		12,13,13,12	8	0					-1 inch charcoal lens	
-56		11,12,14,16	75	0					Sand: Tannish brown fine to medium SAND with some fine to coarse gravel, moist.	
-58		12,11,10,10	0	0						
-60		10,10,19,23	0							
-62		12,14,16,29	75							
-64		15,16,15,18	100							
-66		20,20,35,40	100							
-68	▼	20,15,16,18	100			64-68			-wet	
-70									-end of sampling @ 68 feet	
-72										
-74										
-76										
-78									-end of boring @ 78 feet	
-80										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/30/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	593.10
WELL ID:	U04-MW01/TW-87	**COORDINATES:**	5170.780N, 5314.159
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Topsoil: TOPSOIL	
-2		4,6,8,10	67	0	NA	0-2		ML	Silt: Brown fine sandy SILT with some organics, little fine to medium gravel, dry.	
-4		10,15,16,17	83	0					Silt: Dark brown fine sandy SILT, stained,with some organics, ash layer, dry.	
-6		5,4,5,5	71	0		4-6			Silt: Brown fine sandy SILT with trace fine gravel, some organics, some ash and cinder fragments, dry.	
-8		5,5,10,12	100	0					Silt: Brown fine clayey SILT with trace organics, dry.	
-10		6,6,7,6	100	0				CL	Silt: Brown clayey SILT, some organics,some orange and grey mottles, increasing clay towards end of spoon, dry.	
-12		5,5,5,5	100	0						
-14		2,2,3,2	100	0				OH	Clay: Brown silty CLAY with 1/2 inch charcoal seam, moist.	
-16	▼	3,5,5,5	100	0					Clay: Brown CLAY with trace silt, some grey mottling, moist.	
-18		2,2,2,4	100	0		16-18			-wet	
-20									-end of sampling @ 18 feet	
-22										
-24										
-26										
-28									-end of boring @ 27 feet	
-30										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/13/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	629.93
WELL ID:	V06-MW01/TW-88	**COORDINATES:**	4702.837N, 5505.873
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0					NA				Asphalt: ASPHALT	
-2									Fill: Brown and black gravelly fill, dry.	
-4								ML	Silt: Brown fine SILT with some sand and trace fine to coarse gravel, micaceous, moist.	
-6		10,10,6,6	83	0						
-8										
-10		5,5,4,3	100	0						
-12										
-14								SM	Sand: Tannish brown to brown silty fine SAND with trace fine gravel, moist.	
-16		4,9,12,13	100	0				SP	Sand: Brown fine to medium SAND with some fine to coarse gravel, moist.	
-18										
-20										
-22		9,14,21,10	83	0						
-24										
-26		11,13,16,21	92	1						
-28										
-30										
-32		13,17,19,26	83	1						
-34										
-36		15,18,23,27	83	0						
-38										
-40										
-42		12,14,20,25	83	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/13/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	629.93
WELL ID:	V06-MW01/TW-88	**COORDINATES:**	4702.837N, 5505.873
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-44									Sand: Brown fine to medium SAND with some fine to coarse gravel, moist.	
-46		14,13,33,35	100	0						
-48										
-50								SW	Sand: Brown fine to medium clean SAND with trace fine gravel, moist.	
-52		16,20,19,22	96	0						
-54										
-56		8,9,8,15	83	0						
-58										
-60										
-62		12,27,19,18	100	0						
-64										
-66	▼	18,14,35,32	100	0					-wet	
-68		12,11,13,22	88	0					-end of sampling @ 68 feet	
-70										
-72										
-74										
-76										
-78									-end of boring @ 78 feet	
-80										

DUPONT

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.25
WELL ID:	W05-MW01/TW-89	**COORDINATES:**	4825.713N, 5684.990
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0								OL	Silt: Olive grey to brown fine sandy SILT with some fine to coarse gravel, organic, dry to moist.	
-2					NA					
-4										
-6		6,5,4,3	71	0						
-8										
-10		3,3,2,4	100	0						
-12										
-14								SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-16		4,4,6,7	29	0				OL	Silt: Olive grey fine sandy organic SILT, trace fine gravel, moist.	
-18										
-20		6,6,7,7	4	0				SM	Sand: Brown to tan silty fine to medium SAND with some fine to medium gravel, moist.	
-22										
-24										
-26		14,18,18,25	83	0				GM/ SM	Gravel and Sand: Brown to tan fine to medium SAND and fine to coarse GRAVEL with trace silt, moist.	
-28										
-30		14,21,24,25	75	0						
-32										
-34										
-36		7,8,14,21	75	0						
-38										

Corporate Remediation Group

An Alliance between
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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/12/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.25
WELL ID:	W05-MW01/TW-89	**COORDINATES:**	4825.713N, 5684.99(
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-40		9,8,16,21	0	0						
-42										
-44								SP	Sand: Brown to tannish brown fine to medium clean SAND with little fine to coarse gravel, charcoal lenses, moist.	
-46		8,10,14,21	79	0						
-48										
-50		14,16,18,24	100	0						
-52										
-54								SP	Sand: Brown to tannish brown fine to medium clean SAND with trace fine to medium gravel, moist..	
-56		8,12,12,23	96	0						
-58										
-60		14,18,29,22	100	0						
-62										
-64										
-66	▼	29,19,21,26	100	0					-wet	
-68		8,13,9,20	83	0					-end of sampling @ 66 feet	
-70										
-72										
-74										
-76									-end of boring @ 76 feet	
-78										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/05/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	640.10
WELL ID:	Y14-MW01/TW-90	**COORDINATES:**	3164.024N, 6163.690E
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Topsoil: TOPSOIL	
-2		3,4,8,8	75	0	NA	0-2		CL	Clay: Tannish brown silty CLAYwith some fine sand, some organics, dry.	
-4		16,15,16,16	100	0					Clay: Orange to yellowish brown silty CLAY with some fine to medium gravel, dry.	
-6		5,10,14,16	71	0					Clay: Red to yellowish brown silty CLAY with some fine to coarse gravel, moist.	
-8		15,20,22,22	96	0					Clay: Reddish brown silty CLAY with orange and grey mottles, moist.	
-10		8,10,15,18	63	0						
-12		3,6,6,10	79	0				SM	Sand: Brown, silty, fine SAND with little fine to coarse gravel, moist to wet.	
-14		9,8,10,8	75	0						
-16		5,6,8,10	50	0					Sand: Brown to tannish brown, silty, fine to medium SAND with some fine to coarse gravel, moist.	
-18		20,20,20,20	33	0						
-20		26,25,24,25	8	0						
-22		50/2	0	0				SM/ GM	Gravel and Sand: Brown silty fine to coarse SAND and fine to coarse GRAVEL, moist.	
-24		24,26,25,25	75	0						
-26		36,22,23,23	67	0						
-28		10,10,12,15	54	0						
-30		10,10,12,15	42	0				SM	Sand: Brown silty fine to coarse SAND with some fine to coarse gravel, moist.	
-32		15,15,16,16	50	0					Sand: Brown to light brown silty fine to coarse SAND with some fine to coarse gravel, moist.	
-34		16,15,10,20	92	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/05/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	640.10
WELL ID:	Y14-MW01/TW-90	**COORDINATES:**	3164.024N, 6163.69(
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-36		14,16,15,15	100	0					Sand: Brown to light brown silty fine to coarse SAND with some fine to coarse gravel, moist.	
-38		15,14,16,15	100	0						
-40		25,25,26,30	92	0					Sand: Brown to tannish brown silty fine to medium SAND with some fine to medium gravel, moist.	
-42		15,16,15,15	100	0						
-44									Sand and Gravel: Brown to tannish brown silty fine to coarse SAND and fine to coarse GRAVEL, moist.	
-46		12,14,14,14	100	0						
-48										
-50								SW	Sand: Brown to tannish brown fine to medium clean SAND, moist.	
-52		8,9,10,30	75	0						
-54										
-56		10,15,16,18	100	0						
-58										
-60										
-62		15,16,16,17	100	0						
-64										
-66		20,21,23,25	100	0						
-68										
-70										
-72		15,16,21,34	6	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	10/05/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	640.10
WELL ID:	Y14-MW01/TW-90	**COORDINATES:**	3164.024N, 6163.690
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-74									-wet	
-76		100/0	0	0						
-78		19,8,8,8	63	0		76-78			-end of sampling @ 78 feet	
-80										
-82										
-84										
-86										
-88										
-90									-end of boring @ 90 feet	
-92										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/22/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	629.64
WELL ID:	Z06-MW02/TW-91	**COORDINATES:**	4721.355N, 6213.084
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Asphalt: ASPHALT	
-2		11,10	0	0	NA			ML	Silt: Brown fine sandy SILT with orange and grey mottles, dry.	
-4		4,11,9,10	50	0		2-4				
-6		5,4,6,1	87	0				SM	Sand: Brown to tannish brown silty fine SAND, moist.	
-8		5,6,9,10	100	0				MH	Silt: Brown fine sandy SILT, micaceous, moist.	
-10		10,9,11,13	100	0		8-10		SM	Sand: Brown silty fine SAND, moist.	
-12		6,5,7,7	96	0					Sand: Brown silty fine to medium SAND with little fine to medium gravel, moist.	
-14		5,6,8,10	67	0						
-16		3,4,5,6	29	0		14-16			Sand: Brown silty fine to medium SAND with some fine to coarse gravel, moist.	
-18		6,4,4,6	75	0						
-20		5,6,6,5	67	0						
-22		8,5,8,6	21	0		20-22				
-24		7,4,3,3	71	0				SM/ GM	Gravel and Sand: Brown silty fine to coarse SAND and fine to coarse GRAVEL, moist.	
-26		5,5,3,4	50	0						
-28		5,6,5,9	21	0						
-30		8,6,7,7	0	0						
-32		14,10,10,10	0	0						
-34		5,4,4,4	17	0						
-36		4,3,3,5	33	0						
-38		3,6,10,31	58	0				SP	Sand: Brown to tannish brown fine to medium clean SAND with little fine gravel,	

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/22/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	629.64
WELL ID:	Z06-MW02/TW-91	**COORDINATES:**	4721.355N, 6213.084
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-40		18,20,20,31	83	0					moist.	
-42		12,18,19,21	83	0		40-42			Sand: Brown to tannish brown fine to medium clean SAND with some fine to medium gravel, moist.	
-44										
-46										
-48										
-50										
-52										
-54										
-56										
-58										
-60										
-62	▼	23,25,30,35	100	0					-wet	
-64		13,14,19,16	100	0		62-64			-end of sampling @ 64 feet	
-66										
-68										
-70										
-72									-end of boring @ 72 feet	
-74										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/11/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.70
WELL ID:	Z07-MW01/TW-92	**COORDINATES:**	4517.412N, 6262.75(
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0								ML	Topsoil: TOPSOIL	
-2		8,10,8,7	100	2	NA	0-2			Silt: Reddish brown SILT with trace fine gravel, orange and grey mottles, some organics, dry.	
-4		8,7,10,7	100	1						
-6		5,7,5,6	100	1				ML	Sand: Brown coarse SAND with some fine gravel, moist.	
-8		5,5,6,8	100	2					Silt: Reddish brown SILT with trace fine gravel, orange and grey mottles, trace organics, micaceous, moist.	
-10		3,4,4,5	96	0.5				ML/ SM	Sand and Silt: Reddish brown silty fine SAND and fine sandy SILT, moist to wet.	
-12		3,3,6,5	100	1		10-12				
-14		2,2,3,5	100	1						
-16		3,4,6,10	100	1.5				SM	Sand: Brown silty medium SAND with some fine to coarse gravel moist to wet.	
-18		5,7,6,8	63	2						
-20		4,7,13,18	83	1						
-22		10,14,15,20	75	0		20-22				
-24		13,20,25,30	83	1				SP	Sand: Brown fine to coarse SAND with some fine to coarse gravel, moist.	
-26		18,24,17,16	75	0.5						
-28		11,11,17,14	83	0.5						
-30		13,14,17,21	79	0.5				SP	Sand: Brown to tannish brown fine to medium clean SAND with little fine to medium gravel, moist.	
-32		11,13,18,20	88	0.5				ML/ SP	Gravel and Sand: Brown to tannish brown fine to medium SAND and fine to coarse GRAVEL, moist.	
-34		24,22,21,16	63	0						
-36		7,17,29,38	29	0						
-38		19,21,27,26	54	0						

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/11/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	630.70
WELL ID:	Z07-MW01/TW-92	**COORDINATES:**	4517.412N, 6262.75(
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
-40		27,10,16,30	83	0				SP	Sand: Tannish brown fine to medium SAND with trace gravel, moist.	
-42		10,16,26,48	75	0						
-44		11,17,15,14	83	0					-thin charcoal seams	
-46		6,16,19,28	83	0						
-48		6,16,20,20	92	0						
-50		13,17,19,19	100	0				SP	Sand: Tannish brown fine to medium clean SAND with trace fine to medium gravel, moist.	
-52		13,16,29,31	100	0						
-54		23,17,24,24	100	0						
-56		13,17,25,23	100	0						
-58		13,15,19,21	100	0						
-60		12,15,20,18	100	0						
-62		10,12,20,29	88	0						
-64	▼	18,19,16,17	83	0		62-64			-wet	
-66									-end of sampling @ 64 feet	
-68										
-70										
-72										
-74									-end of boring @ 74 feet	
-76										

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SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/3/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	625.18
WELL ID:	Z09-MW01/TW-93	**COORDINATES:**	4198.745N, 6201.542
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
0									Asphalt: ASPHALT	
-2				0	NA	2-4		CL	Clay: Reddish brown CLAY with trace silt, dry.	
-4		7,7,7,9	92	0				ML/ CL	Clay: Light brown silty CLAY with trace coarse gravel, black cinders throughout spoon, moist.	
-6		3,4,5,6	92	0						
-8		3,3,3,5	92	0				ML/ CL	Silt: Brown clayey SILT with orange and grey mottles, gleyed, moist.	
-10		4,4,4,5	100	0		8-10				
-12		2,3,4,5	100	0				ML	Silt: Brown clayey SILT with layers of tan fibrous material, moist.	
-14		3,3,8,5	92	0				SM	Sand: Brown silty fine to medium SAND with some fine to coarse gravel, moist to wet.	
-16		5,7,8,10	75	0		14-16		CL	Clay: Reddish brown silty CLAY with some fine to coarse sand and some fine to coarse gravel, moist.	
-18		7,9,9,7	92	0						
-20		7,5,4,6	8	0				SP	Sand: Tan to brown fine to coarse SAND with some fine to medium gravel, moist.	
-22		4,6,4,4	63	0		20-22			Sand: Tan to brown fine to medium clean SAND with little fine to medium gravel, moist.	
-24		5,3,2,1	58	0						
-26		2,2,3,4	71	0						
-28		2,2,2,3	79	0						
-30		4,4,5,5	83	0						
-32		3,4,5,9	58	0					Sand: Tan to brown fine to medium SAND with trace fine gravel, moist.	
-34		5,6,6,6	75	0						
-36										

DUPONT

Corporate Remediation Group

An Alliance between
DuPont and The W-C Diamond Group

SOIL TEST BORING LOG

PROJECT:	Washington Works RFI	**DATE:**	9/3/98
JOB NUMBER:	D6W7205-4	**ELEVATION**	625.18
WELL ID:	Z09-MW01/TW-93	**COORDINATES:**	4198.745N, 6201.542
DRILLING METHOD:	8 7/8" OD HSA	**GEOLOGIST:**	J. Stephen Opp

DEPTH (ft bgs)	WATER	BLOW COUNTS	RECOVERY (%)	PID (ppm)	FID (ppm)	SAMPLE	SYMBOL	USCS	SOIL DESCRIPTION	WELL DIAGRAM
--		4,6,8,8	83	0						
-38		5,6,7,10	75	0				SW	Sand: Tan to brown fine clean SAND with trace fine gravel, moist.	
-40		6,6,9,11	83	0						
-42		7,10,10,12	92	0		40-42		SP	Sand: Tannish brown fine to medium clean SAND with trace fine gravel, moist.	
-44		7,11,13,18	96	0						
-46		9,13,15,13	100	0						
-48		7,9,8,9	100	0						
-50		4,5,8,9	92	0						
-52		5,6,8,10	83	0						
-54		7,7,9,11	100	0						
-56		8,9,10,10	100	0						
-58		9,11,8,9	100	0						
-60	▼	25,30,35,25	0	0					-wet	
-62		7,10,12,12	100	0		60-62			-end of sampling @ 62 feet	
-64										
-66										
-68										
-70									-end of boring @ 70 feet	
-72										

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Test Pit Number

TP - 6

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**		(SM) brown silty SAND	0.043 - dust monitor 0.001 - PID
1.0					
2.0					
3.0			**TP-6-3.0ft**	Black Cinders with root material	
4.0					
5.0				(SM) brown sandy SILT, dry	

END of TEST PIT @ 5.0 ft

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Test Pit Number

TP - 7

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**		(CL) brown silty CLAY	0.000 - PID
1.0					
2.0			**TP-7-2.0ft**	Black sandy waste material	
3.0					
4.0					
5.0					

END of TEST PIT @ 5.0 ft

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Test Pit Number

TP - 8

Project Number:	**18984388**	Depth (BGS):	**4.7 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**		(CL) brown silty CLAY	0.046 - dust monitor 0.000 - PID
-			**TP-8-0.5ft**	Black Cinders	
1.0					
-				(SM) brown silty SAND, dry	
2.0					
-					
3.0					
-					
4.0					
-				**END of TEST PIT @ 4.7 ft**	
5.0					

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Test Pit Number

TP - 9

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0	**Grab - Bulk**	**Trowel**	**No Sample**	(CL) brown silty CLAY	0.038 - dust monitor 0.000 - PID
-				(SC) brown sandy CLAY with concrete block pieces	
1.0					
-					
2.0					
-				(SM) brown silty SAND with concrete block pieces, dry	
3.0					
-					
4.0					
-					
5.0					

END of TEST PIT @ 5.0 ft

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Test Pit Number

TP - 10

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(CL) brown silty CLAY with black material	0.018 - dust monitor 0.000 - PID
1.0					
2.0					
3.0					
4.0				(CL) brown silty CLAY with root material	
				(CL) dark brown silty CLAY, dry	
5.0					

END of TEST PIT @ 5.0 ft

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Test Pit Number

TP - 11

Project Number:	**18984388**	Depth (BGS):	**1.5 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(GW) brown fine to coarse GRAVEL, dry	0.145 - dust monitor 0.000 - PID
1.0					
2.0				**END of TEST PIT @ 1.5 ft**	- Test Pit abandoned due to obstruction (concrete slab)
3.0					
4.0					
5.0					

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Test Pit Number

TP - 11 - A

Project Number:	**18984388**	Depth (BGS):	**2.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(GW) brown fine to coarse GRAVEL, dry	0.145 - dust monitor 0.000 - PID
-					
1.0					
-					
2.0					
				END of TEST PIT @ 2.0 ft	- Test Pit abandoned due to obstruction (concrete slab)
-					
3.0					
-					
4.0					
-					
5.0					

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Test Pit Number

TP - 12

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
-	**Grab - Bulk**	**Trowel**		(SC) brown sandy CLAY	0.113 - dust monitor 0.000 - PID
1.0				(CL) brown silty CLAY with black cinder material	
-					
2.0					
-					
3.0					
-			**TP-12-3.5ft**	Black Cinders with wood, dry	
4.0					
-					
5.0					

END of TEST PIT @ 5.0 ft

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Test Pit Number

TP - 13

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0	**Grab - Bulk**	**Trowel**	**No Sample**	(CL) brown silty CLAY	0.034 - dust monitor 0.000 - PID
-				(CL) reddish brown silty CLAY	
1.0					
-					
2.0				- 4-inch layer of Cinders	
-					
3.0					
-					
4.0					
-					
5.0					

END of TEST PIT @ 5.0 ft

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Test Pit Number

TP - 14

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0	**Grab - Bulk**	**Trowel**	**No Sample**	(CL) brown silty CLAY	0.041 - dust monitor 0.000 - PID
1.0				(SM) brown silty SAND	
2.0					
3.0				(SM) brown sandy SILT with white plastic material	
4.0				(CL) gray silty CLAY, dry	
5.0				**END of TEST PIT @ 5.0 ft**	

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Test Pit Number

TP - 15

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0	**Grab - Bulk**	**Trowel**	**No Sample**	(CL) dark brown silty CLAY	0.003 - dust monitor 0.001 - PID
-				(SM) light brown sandy SILT	
1.0					
-					
2.0					
-					
3.0					
-				(SM) brown sandy SILT, dry	
4.0					
-					
5.0					

END of TEST PIT @ 5.0 ft

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Test Pit Number

TP - 16

Project Number:	**18984388**	Depth (BGS):	**4.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2005**
Subcontractor:	**AKSI**		
Method:	**Hand Dug**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0	**Grab - Bulk**	**Trowel**	**No Sample**	(SM) brown sandy SILT	0.040 - dust monitor 0.000 - PID
1.0				(SC) brown sandy CLAY, dry	
2.0					
3.0					
4.0				**END of TEST PIT @ 4.0 ft**	
5.0					

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Test Pit Number

TP - 17

Project Number:	**18984388**	Depth (BGS):	**4.5 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(CL) dark brown silty CLAY	0.000 - PID
-				(CL) brown sandy/silty CLAY	
1.0					
-					
2.0					
-					
3.0					
-				(SM) brown sandy SILT, dry	
4.0					
-				**END of TEST PIT @ 4.5 ft**	
5.0					

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Test Pit Number

TP - 18

Project Number:	**18984388**	Depth (BGS):	**4.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown silty SAND	0.123 - dust monitor 0.000 - PID
-				(CL) reddish brown silty CLAY, dry	
1.0					
-					
2.0					
-					
3.0					
-					
4.0				**END of TEST PIT @ 4.0 ft**	
-					
5.0					

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Test Pit Number

TP - 18 - A

Project Number:	**18984388**	Depth (BGS):	**4.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
-	**Grab - Bulk**	**Trowel**	**No Sample**	(SM) brown sandy SILT	0.102 - dust monitor 0.000 - PID
1.0				(CL) brown silty CLAY	
-				Black plastic strappings and black Cinders	
2.0				(SM) brown silty SAND, dry	
-					
3.0					
-					
4.0				**END of TEST PIT @ 4.0 ft**	
-					
5.0					

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Test Pit Number

TP - 19

Project Number:	**18984388**	Depth (BGS):	**4.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(CL) brown silty CLAY with coarse to fine gravel	0.110 - dust monitor 0.002 - PID
1.0				(CL) brown silty CLAY	
2.0				Black and gray Cinders	
3.0				(SM) reddish brown silty SAND, dry	
4.0				**END of TEST PIT @ 4.0 ft**	
5.0					

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Test Pit Number

TP - 20

Project Number:	**18984388**	Depth (BGS):	**3.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/1/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown SILT, dry	0.000 - PID
1.0					
				Brown and black Cinders	
2.0					
				- white plastic material - glass and refuse material	
3.0				**END of TEST PIT @ 3.0 ft**	
4.0					
5.0					

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Test Pit Number

TP - 21

Project Number:	**18984388**	Depth (BGS):	**4.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown silty SAND	0.115 - dust monitor 0.002 - PID
1.0				- black cinder material (power house waste)	
2.0				(CL) brown silty CLAY, dry	
3.0					
4.0				**END of TEST PIT @ 4.0 ft**	
5.0					

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Test Pit Number

TP - 23

Project Number:	**18984388**	Depth (BGS):	**3.33 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/3/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0	**Grab - Bulk**	**Trowel**	**No Sample**	(SM) dark brown sandy SILT, dry	0.002 - dust monitor 0.000 - PID
1.0				Brown and black Cinders	
2.0					
3.0				(SM) dark brown sandy SILT, dry	
				END of TEST PIT @ 3.33 ft	
4.0					
5.0					

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Test Pit Number

TP - 24

Project Number:	**18984388**	Depth (BGS):	**3.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/3/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) dark brown sandy SILT with some fine gravel, dry	0.017 - dust monitor 0.000 - PID
-				- cinders and clear plastic	
1.0					
-					
2.0					
-				- cinders	
3.0				- black and white plastic material	
				END of TEST PIT @ 3.0 ft	
-					
4.0					
-					
5.0					

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Test Pit Number

TP - 25

Project Number:	**18984388**	Depth (BGS):	**4.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/1/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
-	**Grab - Bulk**	**Trowel**	**No Sample**	(SM) dark brown silty fine to medium SAND with some coarse sand and coarse to fine gravel, dry with organics	0.000 - PID
1.0					
-					
2.0					
-					
3.0					
-					
4.0				**END of TEST PIT @ 4.0 ft**	
-					
5.0					

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Test Pit Number

TP - 25 - A

Project Number:	**18984388**	Depth (BGS):	**3.75 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/1/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) dark brown clayer SILT with some coarse sand coarse to fine gravel, dry	0.000 - PID
-					
1.0					
-					
2.0					
-					
3.0					
-				Black ashy cinders with clear and black plastic waste	
4.0				**END of TEST PIT @ 3.75 ft**	- Test Pit abandonded due to obstruction
-					
5.0					

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Test Pit Number

TP - 26

Project Number:	**18984388**	Depth (BGS):	**4.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(CL) brown silty CLAY with some fine to coarse gravel, dry	0.124 - dust monitor 0.000 - PID
1.0				SAA - with white sandy waste material, dry	
2.0					
3.0					
4.0				**END of TEST PIT @ 4.0 ft**	
5.0					

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Test Pit Number

TP - 27

Project Number:	**18984388**	Depth (BGS):	**3.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/1/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
-	**Grab - Bulk**	**Trowel**	**No Sample**	(SM) brown silty fine to medium SAND with some coarse sand and fine to coarse gravel, dry	0.000 - PID
1.0					
-					
2.0					
-					
3.0					
				END of TEST PIT @ 3.0 ft	
-					
4.0					
-					
5.0					

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Test Pit Number

TP - 28

Project Number:	**18984388**	Depth (BGS):	**3.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/1/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
-	**Grab - Bulk**	**Trowel**	**No Sample**	(SM) brown clayey SILT with trace sand and fine to coarse gravel, dry	0.000 - PID
1.0					
-					
2.0					
-					
3.0				**END of TEST PIT @ 3.0 ft**	
-					
4.0					
-					
5.0					

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Test Pit Number

TP - 29

Project Number:	**18984388**	Depth (BGS):	**2.5 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/1/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
-	**Grab - Bulk**	**Trowel**	**No Sample**	(SM) brown clayey SILT with some sand and fine to coarse gravel, dry	0.000 - PID
1.0					
-				Soil with black and clear hard plastic, firebrick, metal material (can), white powder, glass pieces, metal wire, clear plastic sheeting, brick, cinders, dry	
2.0					
-					
3.0				**END of TEST PIT @ 2.5 ft**	- TP abandoned due to obstruction
-					
4.0					
-					
5.0					

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Test Pit Number

TP - 30

Project Number:	**18984388**	Depth (BGS):	**3.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/1/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown clayey SILT with trace sand and fine gravel, dry	0.000 - PID
1.0					
2.0					
3.0					
				END of TEST PIT @ 3.0 ft	
4.0					
5.0					

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Test Pit Number

TP - 30 - A

Project Number:	**18984388**	Depth (BGS):	**3.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/1/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
-	**Grab - Bulk**	**Trowel**	**No Sample**	(SM) brown clayey SILT with trace sand and fine gravel, dry	0.000 - PID
1.0					
-					
2.0					
-					
3.0					
				END of TEST PIT @ 3.0 ft	
-					
4.0					
-					
5.0					

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Test Pit Number

TP - 31

Project Number:	**18984388**	Depth (BGS):	**1.5 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/1/2005**
Subcontractor:	**AKSI**		
Method:	**Hand-Dug**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
-	**Grab - Bulk**	**Trowel**	**No Sample**	(SM) brown sandy SILT with clear and black plastic, firebrick, plastic product waste, brick, rubber like plastic (white) waste, concrete, metal waste, plastic bands, power house waste (gray), dry.	0.012 - dust monitor 0.000 - PID
1.0					
-				**END of TEST PIT @ 1.5 ft**	- TP abandoned due to obstruction
2.0					
-					
3.0					
-					
4.0					
-					
5.0					

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Test Pit Number

PTP - 1

Project Number:	**18985418**	Depth (BGS):	**12.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/5/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, wet, brown, clayey Silt - (CL)	0.000 - PID 0.021 mg/m^3 - Dust
2.0					
3.0				Fill, black ash with bricks	
4.0				Soft, dry, black, clayey Silt - (CL)	
5.0					
6.0					
7.0					
8.0					
9.0				- Becoming brown	
10.0					
11.0					
12.0					
				END of TEST PIT @ 12.0 ft	

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Test Pit Number

PTP - 2

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/5/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty sand, trace organics-(topsoil)	
2.0				Soft, dry, brown, silty Sand, trace fine gravel (SM)	0.000 - PID 0.024 - 0.046 mg/m^3 - Dust
3.0				Fill, black Ash layer	
4.0				(CL) brown clayey Silt, dry	
5.0					
6.0				-Becoming gray	
7.0					
8.0					
9.0				- Becoming brown	
10.0					
11.0					
12.0				**END of TEST PIT @ 11.0 ft**	

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Test Pit Number

PTP - 2a

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/13/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty , Sand, with organics (SM) - with F. gravel	0.000 - PID 0.045 - 0.046 mg/m^3 - Dust
2.0				Soft, dry, black Ash (FILL)	
3.0				Soft, dry, brown, silty, Sand (SM)	
4.0					
5.0					
6.0				Soft, dry, brown, silty, Clay (CL)	
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 3

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/5/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, silty Sand (SM)	0.000 - PID 0.026 - 0.036 mg/m^3 - Dust
2.0					
3.0				Fill, black Ash layer	
4.0				Soft, dry, brown silty Clay (CL)	
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0				-Becoming wet	
12.0				**END of TEST PIT @ 11.0 ft**	

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Test Pit Number

PTP - 4

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/5/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, dry, brown, silty sand, trace organics-(topsoil)	
1.0	**Bulk**			Soft, dry, brown, silty Sand (SM)	0.000 - PID 0.026 - 0.041 mg/m^3 - Dust
2.0				Hard, dry, gray, fine angulay Gravel (4" thick) Soft, dry, brown silty Sand (SM)	
3.0					
4.0				Soft, dry, brown silty Clay (CL)	
5.0					
6.0					
7.0					
8.0				-Becoming wet	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 5

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/5/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	Soft, dry, brown, silty sand, trace organics-(topsoil)	
1.0				Soft, moist, brown, silty Sand (SM)	0.000 - PID 0.046 - 0.052 mg/m^3 - Dust
2.0					
3.0				Soft, dry, brown silty Clay (CL)	
4.0					
5.0				Soft, dry, brownish black, Clay (CL)	
6.0					
7.0					
8.0				-Becoming wet, brown	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 6

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty sand, trace organics-(topsoil)	
				Soft, moist, brown, silty Sand (SM)	0.1 - PID
				Soft, moist, brown, silty Clay (CL)	0.045 - 0.065 mg/m^3 - Dust
2.0					
3.0					
4.0					
5.0					
6.0					
7.0					
8.0				-Becoming wet	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 7

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	Soft, dry, brown, silty sand, trace organics-(topsoil)	
1.0				Soft, moist, brown, silty Sand (SM)	0.000 - PID 0.063 - 0.068 mg/m^3 - Dust
2.0					
3.0					
4.0					
5.0					
6.0				Soft, moist, dark gray, Clay (CL)	
7.0					
8.0				-Becoming wet	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 8

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty sand, trace organics-(topsoil)	
				Soft, moist, brown, silty Sand, trace roots (SM)	0.000 - PID 0.068 - 0.061 mg/m^3 - Dust
2.0				Soft, dry, black ash (FILL) - 3" thick layer	
				Soft, dry, silty Sand (SM)	
3.0				Soft, dry, silty Clay (CL)	
4.0					
5.0					
6.0				Soft, wet, dark gray, Clay (CL)	
7.0					
8.0					
9.0					
10.0					
11.0					
				END of TEST PIT @ 11.0 ft	
12.0					

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Test Pit Number

PTP - 9

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, wet, brown, silty sand, trace organics-(topsoil)	
1.0	**Bulk**			Soft, wet, brown, silty Sand, trace roots (SM)	0.000 - PID 0.045 - 0.074 mg/m^3 - Dust
2.0				Soft, dry, silty Clay (CL)	
3.0					
4.0				Soft, dry, dark gray, Clay (CL)	
5.0					
6.0				Soft,dry, brown silty Clay (CL)	
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 10

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, wet, brown, silty sand, trace organics-(topsoil)	
				Soft, wet, brown, silty Sand, with fine angular gravel (SM)	0.000 - PID 0.049 - 0.160 mg/m^3 - Dust
2.0				Soft, dry, black Ash with silty Clay(FILL)	
3.0				Soft, dry, brown, silty Clay (CL)	
4.0					
5.0					
6.0				Soft, wet, dark gray, Clay (CL)	
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 11

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, wet, brown, silty sand, trace organics-(topsoil)	
				Soft, wet, brown, silty Sand(SM)	0.000 - PID 0.049 - 0.160 mg/m^3 - Dust
2.0				Soft, dry, black Ash (FILL)	
3.0				Soft, dry, dark gray, silty Clay (CL)	
4.0				Soft, dry, black Ash (FILL)	
5.0					
6.0				Soft, dry, gray, silty Clay (CL)	
7.0					
8.0				Soft, wet, dark brown, silty Clay (CL)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 12

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/12/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty, Sand, with organics (SM) Soft, dry, brown, silty, Clay (CL)	0.000 - PID 0.014 - 0.085 mg/m^3 - Dust
2.0					
3.0					
4.0				-with F. sand and gravel	
5.0					
6.0					
7.0					
8.0				Soft, dry, brown, silty, Clay (CL)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 13

Project Number:	**18985418**	Depth (BGS):	**5.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/11/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	Soft, dry, brown, silty, Sand, with organics (SM)	0.000 - PID
1.0				Firm, dry, brown, silty, Clay with construction debris (FILL)	0.014 - 0.085 mg/m^3 - Dust
2.0					
3.0					
4.0					
5.0					
				END of TEST PIT @ 5.0 ft	
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

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Test Pit Number

PTP - 13a

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/12/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty, Sand, with organics (SM) -with trace F. gravel	0.000 - PID 0.062 - 0.114 mg/m^3 - Dust
2.0				Soft, dry, black Ash (FILL)	
3.0				Soft, dry, brown, silty, Clay (CL)	
4.0					
5.0					
6.0					
7.0					
8.0				Soft, dry, gray, silty, Clay (CL)	
9.0				Soft, dry, brown, silty, Sand (SM)	
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 14

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	Soft, dry, brown, silty sand, with organics (SM)	
1.0				Hard, dry, brown, silty, Clay(CL)	0.000 - PID 0.045 - 0.065 mg/m^3 - Dust
2.0					
3.0					
4.0					
5.0					
6.0				Firm, dry, brown, silty, Clay (CL)	
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 15

Project Number:	**18985418**	Depth (BGS):	**4.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty Clay, with organics (CL)	
				Soft, dry, brown, silty, Sand(SM)	0.000 - PID 0.041 - 0.062 mg/m^3 - Dust
2.0				Soft, dry, brown silty, Sand, with ASH (FILL)	
3.0					
4.0				Drum and French drain encountered	
5.0				**END of TEST PIT @ 4.0 ft**	
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

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Test Pit Number

PTP - 15a

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/13/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty , Sand, with organics (SM) - with F. gravel	0.000 - PID 0.045 - 0.140 mg/m^3 - Dust
2.0				Soft, dry, brown, silty , Sand (SM)	
3.0				Soft, dry, brown, silty, Clay (CL)	
4.0					
5.0					
6.0					
7.0					
8.0				Soft, dry, brown, silty , Sand (SM)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 16

Project Number:	**18985418**	Depth (BGS):	**4.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, wet, brown, silty Sand, with organics (SM)	0.000 - PID 0.045 - 0.047 mg/m^3 - Dust
2.0					
3.0				Construction Debris Test pit terminated and moved 4' North	
4.0					
5.0				**END of TEST PIT @ 4.0 ft**	
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

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Test Pit Number

PTP - 16a

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, wet, brown, silty Sand, with organics (SM)	0.000 - PID 0.045 - 0.047 mg/m^3 - Dust
2.0					
3.0					
4.0				Soft, wet, gray, Clay (CL)	
5.0				Soft, wet, brown, silty Clay(CL)	
6.0					
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 17

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty Sand, with organics (SM)	Note: construction debris encountered 0-6" at southern end of pit
				- becoming gray	
				Soft, dry, brown, silty Sand, with F. gravel (SM)	
2.0					
3.0					0.000 - PID
					0.056 - 0.069 mg/m^3 - Dust
4.0				Firm, dry, silty, Sand, with clay (SM)	
5.0					
6.0					
7.0					
8.0				Soft, dry, brown, silty Clay(CL)	
9.0					
10.0					
11.0					
				END of TEST PIT @ 11.0 ft	
12.0					

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Test Pit Number

PTP - 18

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/11/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Hard, dry, grey, angular Gravel (FILL)	0.000 - PID
				Hard, dry, grey, 6-9" RIP RAP Gravel (FILL)	0.056 - 0.069 mg/m^3 - Dust
2.0				Soft, dry, brown, silty Sand, with organics (SM)	
3.0				Construction Debris and Bottles (FILL)	
4.0				Soft, dry, black, Ash (FILL)	
5.0				Soft, dry, brown, silty Sand, with organics (SM)	
6.0					
7.0					
8.0				Soft, dry, brown, silty Clay(CL)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 19

Project Number:	**18985418**	Depth (BGS):	**5.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/11/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Hard, dry, grey, angular Gravel (FILL) Soft, dry, brown, silty Sand, with organics (SM)	0.000 - PID 0.047 - 0.062 mg/m^3 - Dust
2.0					
3.0				Soft, dry, gray, silty, Clay (CL)	
4.0					
5.0				Hard, dry, White, Plastic layer (FILL)	Could not excavate through white layer. Moved Test Pit East 10'
6.0				**END of TEST PIT @ 5.0 ft**	
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					

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Test Pit Number

PTP - 19a

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/11/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Hard, dry, grey, angular Gravel (FILL) Soft, dry, brown, silty Sand, with organics (SM)	0.000 - PID 0.042 - 0.071 mg/m^3 - Dust
2.0					
3.0				Soft, dry, gray, silty, Clay (CL)	
4.0					
5.0				Firm, dry, White, Plastic layer (FILL)	
6.0					
7.0					
8.0				-with construction debris	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 19b

Project Number:	**18985418**	Depth (BGS):	**12.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/13/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Firm, dry, gray, angular gravel (FILL) Soft, dry, brown, silty Sand, with F. gravel (SM)	0.000 - PID 0.025 - 0.055 mg/m^3 - Dust
2.0				Firm, dry, trash and debris (FILL)	
3.0					
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0				**END of TEST PIT @ 12.0 ft**	

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Test Pit Number

PTP - 20

Project Number:	**18985418**	Depth (BGS):	**12.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/11/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Hard, dry, grey, angular Gravel (FILL) Soft, dry, brown, silty Sand, with F. gravel (SM)	0.000 - PID 0.034 - 0.046 mg/m^3 - Dust
2.0				Firm, Dry, gray, Gravel and bricks (FILL)	
3.0				Soft, dry, black, ASH and construction and demolition material (FILL)	
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0				Soft, dry, brown, silty, Clay (CL)	
				END of TEST PIT @ 12.0 ft	

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Test Pit Number

PTP - 21

Project Number:	**18985418**	Depth (BGS):	**12.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/11/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty, Sand, with organics (SM)	0.000 - PID 0.032 - 0.047 mg/m^3 - Dust
2.0				Soft, dry, brown, silty, Clay, trace sand (CL)	
3.0					
4.0					
5.0					
6.0					
7.0					
8.0					
9.0				Soft, dry, brown, silty, Sand (SM)	
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 22

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, moist, brown, silty sand, trace organics-(topsoil)	
1.0	**Bulk**			Soft, wet, brown, silty Sand, with organics(SM)	0.000 - PID 0.044 - 0.050 mg/m^3 - Dust
2.0					
3.0					
4.0				Soft, dry, brown, silty Clay (CL)	
5.0					
6.0					
7.0					
8.0					
9.0				Firm, moist, brown Clay (CL)	
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 23

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, moist, brown, silty sand, trace organics-(topsoil)	
1.0	**Bulk**			Soft, wet, brown, silty Sand(SM)	0.000 - PID 0.045 - 0.073 mg/m^3 - Dust
2.0					
3.0					
4.0				Soft, dry, brown, silty Clay (CL)	
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 24

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	Soft, moist, brown, silty sand(SM)	
1.0				-with organics	0.000 - PID
				Soft, moist, brown, silty Clay (CL)	0.041 - 0.043 mg/m^3 - Dust
2.0					
3.0					
4.0				Soft, moist, brown, silty Sand (SM)	
5.0					
6.0					
7.0					
8.0				Firm, moist, brown, silty Sand, trace F. gravel (SM)	
9.0					
10.0				Firm, moist, brown, silty Clay, with F. gravel (CL)	
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 25

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, moist, brown, silty sand, with organics(SM)	
1.0	**Bulk**			Soft, moist, brown, silty, Sand, with F. gravel (SM)	0.000 - PID 0.043 - 0.071 mg/m^3 - Dust
2.0					
3.0				Soft, moist, brown, silty Clay, with F. gravel (CL)	
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 26

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/5/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, silty Sand (SM)	0.000 - PID 0.026 - 0.052 mg/m^3 - Dust
2.0				-with pieces of black top	
3.0				Fill, black Ash layer	
4.0				Soft, brown silty Sand (SM)	
5.0				Soft Black Ash with White material	
6.0					
7.0				Soft, dry, brown silty Clay (CL)	
8.0				Soft, dry, brown, silty Sand (SM)	
9.0					
10.0					
11.0					
12.0				**END of TEST PIT @ 11.0 ft**	

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Test Pit Number

PTP - 27

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/12/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty, Sand, with organics (SM) -with F. gravel	0.000 - PID 0.042 - 0.071 mg/m^3 - Dust
2.0				Soft, dry, brown, silty, Clay, with organics (CL)	
3.0					
4.0					
5.0					
6.0				Soft, dry, brown, silty, Clay, with F. gravel (CL)	
7.0					
8.0				Soft, dry, brown, silty, Clay (CL)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 28

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/12/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty, Sand, with organics (SM)	0.000 - PID 0.045 - 0.114 mg/m^3 - Dust
2.0				Soft, dry, black Ash (FILL)	
3.0				Soft, dry, brown, silty, Sand (SM)	
4.0				Soft, dry, brown, silty, Clay(CL)	
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 29

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/12/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty, Sand, with organics (SM)	0.000 - PID 0.045 - 0.093 mg/m^3 - Dust
2.0				Soft, dry, black Ash (FILL)	
3.0					
4.0				Soft, dry, gray, silty, Sand (SM)	
5.0					
6.0				- with F. gravel	
7.0					
8.0				Soft, dry, brown, silty, Clay (CL)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 30

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/12/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty, Sand, with organics (SM)	0.000 - PID
				Soft, dry, black Ash (FILL)	0.048 - 0.139 mg/m^3 - Dust
2.0				Soft, dry, gray, silty, Clay, with organics (CL)	
3.0				Soft, dry, brown, silty, Sand (SM)	
4.0					
5.0					
6.0				Soft, dry, brown, silty, Clay(CL)	
7.0					
8.0					
9.0				Soft, dry, brown, silty, Sand (SM)	
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 31

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/6/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	Soft, moist, brown, silty sand, trace organics-(topsoil)	
1.0				Soft, dry, brown, silty Clay(CL)	0.000 - PID 0.031 - 0.051 mg/m^3 - Dust
2.0				Soft, dry, brown Clay (CL)	
3.0					
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 32

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, dry, brown, silty sand, with organics (SM)	
1.0	**Bulk**			Soft, dry, brown, silty, Clay, trace F. sand (CL)	0.000 - PID 0.024 - 0.124 mg/m^3 - Dust
2.0				Soft, dry, brown, silty, Clay (CL)	
3.0					
4.0				-becoming dark brown	
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 33

Project Number:	**18985418**	Depth (BGS):	**12.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/11/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty, Sand, with organics (SM) - with F. Gravel Soft, dry, brown, silty, Clay, trace sand (CL)	0.000 - PID 0.043 - 0.193 mg/m^3 - Dust
2.0					
3.0					
4.0				-Becoming Gray	
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0				**END of TEST PIT @ 11.0 ft**	

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Test Pit Number

PTP - 34

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, dry, brown, silty Sand, with organics (SM)	0.000 - PID
1.0	**Bulk**			Soft, dry, brown, silty, Sand (SM)	0.021 - 0.101 mg/m^3 - Dust
2.0				-with Gravel	
3.0					
4.0					
5.0					
				Soft, moist, brown, silty, Clay (CL)	
6.0					
7.0				Soft, dry, gray, silty, Clay, with organics (CL)	
8.0				-Becoming brown, with gravel	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 34a

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, dry, brown, silty Sand, with roots (SM)	0.000 - PID
1.0	**Bulk**			Soft, dry, brown, silty, Sand, with F. gravel (SM)	0.057 - 0.070 mg/m^3 - Dust
2.0					
3.0				Soft, dry, brown, silty, Clay (CL)	
4.0					
5.0					Tires encountered on South side of Pit at 5'. North side clean.
6.0				-with gravel	
7.0					
8.0				Soft, dry, brown, silty, Clay (CL)	
9.0					
10.0					
11.0					
				END of TEST PIT @ 11.0 ft	
12.0					

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Test Pit Number

PTP - 34b

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/13/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty , Sand, with organics (SM) - with F. gravel	0.000 - PID 0.041 - 0.045 mg/m^3 - Dust
2.0				Soft, dry, brown, silty, Clay, with F. gravel (CL)	
3.0					
4.0					
5.0					
6.0				Soft, dry, brown, silty, Clay (CL)	
7.0					
8.0					
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 35

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, moist, brown, silty Sand, with organics (SM) Soft, moist, silty, Sand and gravel (SM) Firm, moist, grey, angular Gravel (Fill) Soft, moist, brown, silty, Clay, with fine gravel (CL)	0.000 - PID 0.021 - 0.045 mg/m^3 - Dust
2.0					
3.0					
4.0				Soft, moist, brown, silty, Sand with rounded gravel (SM)	
5.0					
6.0				Soft, moist, brown, silty, Clay (CL)	
7.0					
8.0				Soft, moist, brown, silty Sand, with gravel (SM)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

URS Diamond
Barley Mill Plaza, Building 19
Wilmington, Delaware 19805

Test Pit Number

PTP - 35a

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, dry, brown, silty Sand, with roots (SM)	0.000 - PID
1.0	**Bulk**			Soft, dry, silty, Sand and gravel (SM)	0.045 - 0.074 mg/m^3 - Dust
				Firm, dry, grey, angular Gravel (Fill)	
2.0				Soft, dry, brown, silty, Clay (CL)	
3.0					
4.0				-with gravel	
5.0					
6.0					
7.0					
8.0				Soft, dry, brown, silty, Clay (CL)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 36

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
1.0	**Grab - Bulk**	**Trowel**	**No Sample**	Soft, dry, brown, silty Sand, with organics (SM) -Becomming grey	Thin lens of Ash encountered in Southern end of test pit.
2.0				Soft, dry, brown, silty, Sand and gravel (SM)	
3.0					0.000 - PID 0.023 - 0.045 mg/m^3 - Dust
4.0				Soft, dry, brown, silty, Clay, trace gravel (CL)	
5.0					
6.0					
7.0					
8.0				Soft, dry, brown, sandy, Clay with gravel (CL)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP - 37

Project Number:	**18985418**	Depth (BGS):	**11.0**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2008**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab -	**Trowel**	**No Sample**	Soft, dry, brown, silty Sand, with organics (SM)	0.000 - PID
1.0	**Bulk**			Soft, dry, brown, silty, Sand, with gravel (SM)	0.024 - 0.026 mg/m^3 - Dust
2.0				Soft, dry, brown, silty, Clay (CL)	
3.0					
4.0				-with gravel	
5.0					
6.0					
7.0					
8.0				Soft, dry, brown, sandy, Clay with gravel (CL)	
9.0					
10.0					
11.0				**END of TEST PIT @ 11.0 ft**	
12.0					

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Test Pit Number

PTP-85

Project Number:	**18984388**	Depth (BGS):	**12 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**11/10/2009**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Test pit located west of TP-23. Test pit 16' long, 3' wide and 12' deep.
Ash seam tapered down slope.

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown, dry, silty clay with organic material	0.002 - dust monitor 0.1 - PID
2.0				(fill) Black, dry, ash with plastic material	
4.0				(SM) Brown, dry, silty clay	
6.0					
8.0					
10.0					
12.0				**END of TEST PIT @ 12.0 ft**	
14.0					
16.0					

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Test Pit Number

PTP-85a

Project Number:	**18984388**	Depth (BGS):	**12 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**11/10/2009**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Located west of PTP-85. Test pit 16' long, 3 wide and 12' deep. Ash tapered down slope.

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown, dry, silty clay with organic material	0.001 - dust monitor 0.0 - PID
2.0				(fill) Black, dry, ash with plastic material	
				(SM) Brown, dry, silty clay	
4.0					
6.0					
8.0					
10.0					
12.0				**END of TEST PIT @ 12.0 ft**	
14.0					
16.0					

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Test Pit Number

PTP-85b

Project Number:	**18984388**	Depth (BGS):	**12 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**11/10/2009**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Located east of PTP-85. Test pit 16' long, 3 wide and 12' deep. Ash tapered down slope.

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown, dry, silty clay with organic material	0.000- dust monitor
				(fill) Black, dry, ash with plastic material	0.3 - PID
2.0					
4.0					
				(SM) Brown, dry, silty clay	
6.0					
8.0					
10.0					
12.0					
				END of TEST PIT @ 12.0 ft	
14.0					
16.0					

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Test Pit Number

PTP-86

Project Number:	**18984388**	Depth (BGS):	**12 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**11/10/2009**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Located west of TP-10. Test pit 16' long, 3 wide and 12' deep. Ash tapered down slope to nothing.

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown, dry, silty clay with organic material - Trace of Black ash	0.002- dust monitor 0.2 - PID
2.0				(fill) black ash material (SM) Brown, dry, silty clay	
4.0					
6.0					
8.0					
10.0					
12.0				**END of TEST PIT @ 12.0 ft**	
14.0					
16.0					

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Newark, DE 19713

Test Pit Number

PTP-86b

Project Number:	**18984388**	Depth (BGS):	**12 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**11/10/2009**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Located east of TP-10. Test pit 16' long, 3 wide and 12' deep. Ash tapered down slope to nothing.

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown, dry, silty clay with organic material	0.002- dust monitor 0.2 - PID
				- increasing sand	
2.0				(fill) Black, dry ash material	
				(SM) Brown, dry, silty clay	
4.0					
6.0					
8.0					
10.0					
12.0				**END of TEST PIT @ 12.0 ft**	
14.0					
16.0					

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Newark, DE 19713

Test Pit Number

PTP-86b

Project Number:	**18984388**	Depth (BGS):	**12 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**11/11/2009**
Subcontractor:	**AKSI**		
Method:	**Excavator**		
Engineer:	**TEC**		

Located east of TP-23. Test pit 16' long, 3 wide and 12' deep. Test pit also extended 15' along slope, material consistant throughout.

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown, dry, silty clay with organic material	0.004- dust monitor 0.2 - PID
				- increasing sand	
2.0				(fill) Black, dry ash material	
4.0				(SM) Reddish brown, dry, silty clay	
6.0					
8.0				-becoming brown	
10.0					
12.0				**END of TEST PIT @ 12.0 ft**	
14.0					
16.0					

SHELL

3.0 SITE BACKGROUND AND SETTING

3.1 Site Description and History

3.1.1 Site Setting and Adjacent Land Use

The Shell Belpre plant is located on an approximate 300-acre site on the north bank of the Ohio River (river mile 188.5) approximately 2.4 miles west of the city of Belpre, in Washington County, Ohio (Figure 1.1). The plant is located on a generally level terrace above the Ohio River at an elevation of approximately 630 ft above mean sea level (msl). To the south and west, the land drops steeply toward a lower river bank terrace at an elevation of approximately 600 ft msl. The plant site is bounded on the south by Ohio State Route 618 and the Ohio River; on the west by Davis Creek; on the north by U.S. Highway 50/Ohio Route 7; and on the east by Township Road 97, facilities owned by Nova Chemical Corporation, other commercial/industrial operations, and additional undeveloped property owned by Shell (Figures 3.1 and 3.2). Shell property extends south to the Ohio River where Shell operates a barge unloading facility and a pumphouse for intake of river water.

Prior to purchase and development by Shell, the current plant area was in agricultural and low-density residential use. As shown on Figure 3.2, Shell property extends beyond the plant boundaries to the east, south, and west. Areas south and west of the Shell property are currently used for cropland and grazing. Low-density residential development occurs west of the Shell property at Porterfield. Undeveloped, wooded areas are located north and immediately west of the plant, in the Davis Creek drainage area. Blennerhassett Island, a privately owned tract leased to the State of West Virginia for use as a state park and recreational area, is located in the Ohio River immediately south of the plant.

3.1.2 Operations History and Hazardous Waste Management

The Belpre Plant began operating in 1962. Throughout its history, the Shell plant has manufactured synthetic rubbers and, more recently, thermoplastic elastomers from styrene, isoprene, and/or butadiene in a cyclohexane solvent. Hazardous wastes generated during the manufacturing process have included primarily ignitable characteristic hazardous wastes classified as D001,

conditions has been conducted during the RA and RFI to facilitate assessment of the potential for migration of released site constituents in groundwater.

Together the RA and Phase II RFI work programs have included installation of 140 soil borings to depths ranging from 6 to 20 ft below ground surface (bgs), 14 additional monitoring wells screened at the top of the aquifer, and 3 additional monitoring wells screened at the base of the aquifer (see Table 3.1). The site monitoring network currently consists of 44 wells, including 4 screened at the base of the aquifer (see Table 3.2). Selected wells were field tested during the RA to assess aquifer hydraulic conductivity. Water levels in all wells have been measured to assess groundwater flow patterns. Surface water elevations have been measured in the Ohio River, Davis Creek, and on-site ponds to assess groundwater-surface water recharge and discharge relationships. The following paragraphs provide an updated description of the hydrogeology underlying the Belpre facility, incorporating recently acquired data.

3.2.2 Regional Hydrogeologic Setting and Local Groundwater Use

The Shell Belpre plant site is located on the upper terrace of alluvial fill on the northern side of the Ohio River glacial valley. The modern Ohio River occupies a narrow, meandering channel within glacial valley fill. Pleistocene terraces from the ancestral river occupy the higher elevations within the valley floor on both sides of the river. The stratigraphic sequence penetrated by borings and wells at the site consists primarily of gravel and sand, with silts and clays present in the upper part of the sequence. The alluvial deposits are underlain by Permian bedrock consisting of shaley sandstone and sandy shale.

Ohio River valley alluvial deposits comprise the dominant regional aquifer in eastern Ohio (Heath, 1984). A total of 39 wells registered with the Ohio Department of Natural Resources (ODNR) and West Virginia Department of Health and Human Resources were identified within the search area within a 1-mile zone around the Shell Belpre plant including 19 located on Blennerhassett Island owned by E.I. DuPont de Nemours & Co. No depth or construction information was available for the DuPont wells. Among the other wells identified, depths for all but three ranged from 45 to 108 ft bgs, indicating production from the alluvial aquifer. The ground surface elevation for three deeper wells (170 to 216 ft deep) is unknown; therefore it can not be confirmed they are screened in the upper alluvial aquifer.

land surface elevation. The manufacturing area of the plant, where most SWMUs and AOCs are located, is situated on the upper terrace, beneath which the depth to groundwater is typically 40 to 50 ft bgs. Beneath the lower terrace, adjacent to Davis Creek and the Ohio river, the depth to groundwater may be 5 ft or less. Overall, static water level elevations beneath most of the facility range from approximately 586 to 583 ft msl corresponding to a fairly flat gradient. Groundwater typically flows under unconfined conditions beneath most of the plant, with confined conditions occurring in lower-lying areas immediately adjacent to Davis Creek and the Ohio River.

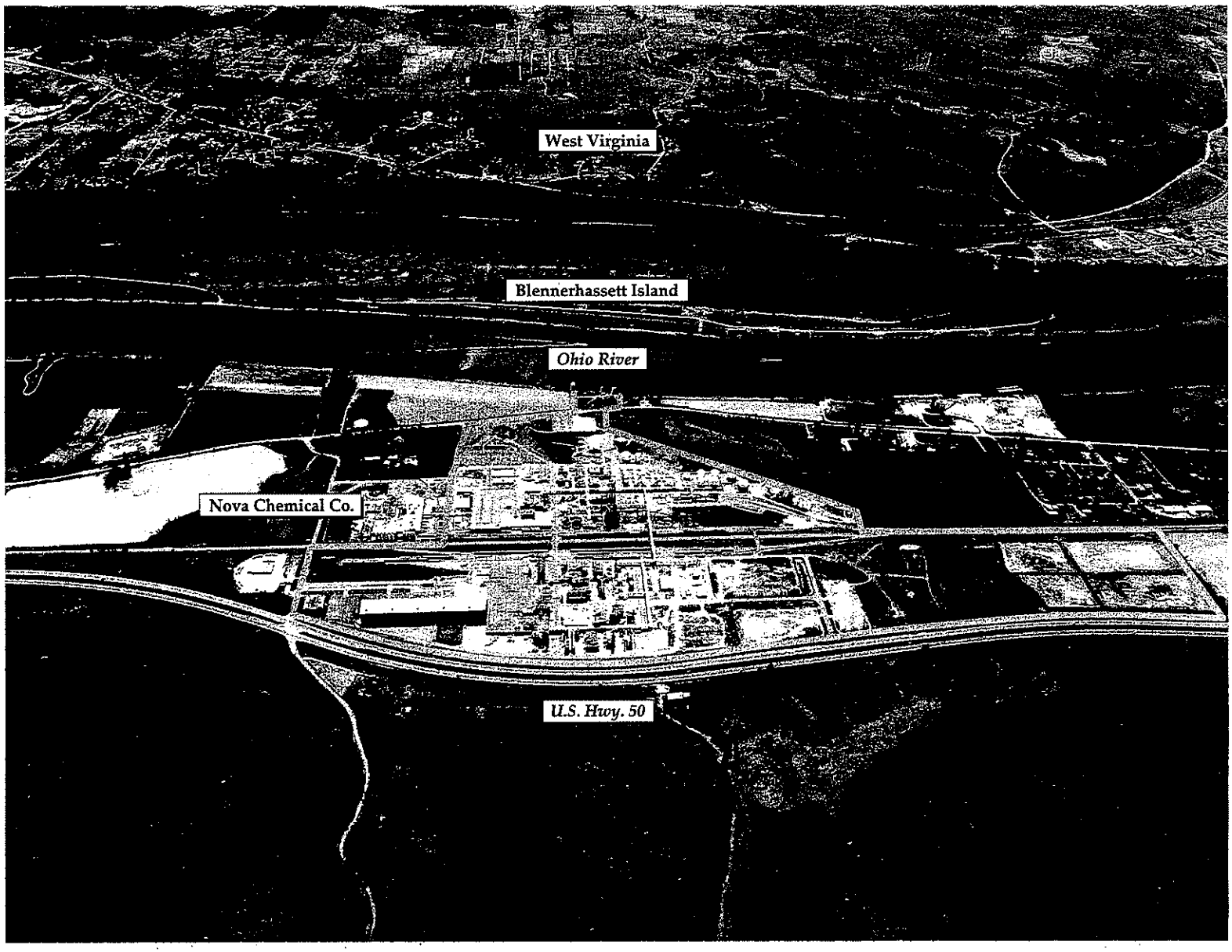
Figure 3.4 indicates the general direction of groundwater flow to be toward the Ohio River and Davis Creek, with probable discharge into both bodies. Historical water level measurements indicate a generally consistent flow pattern beneath the Shell facility (see Appendix B). As shown by Figure 3.4, the gradient beneath most of the plant area is essentially flat (i.e., <0.001 ft/ft). Contours in the area of the slag ponds, near the western facility boundary, indicate probable recharge conditions with a radial flow gradient as great as 0.03 ft/ft. Apparent hydraulic mounding and a steeper gradient (as steep as 0.02 ft/ft) also occurs east of the plant, evidenced by measurements well MW-23, which is screened across a relatively silty section in the upper portion of the aquifer. The well is located in the vicinity of an ephemeral drainage which does not receive stormwater runoff from the Shell facility, but which may receive runoff from the Nova facility and from areas to the north. No mounding was evident in the vicinity of the South Runoff Pond.

Measurements of water levels in four monitoring well pairs screened at the top and base of the aquifer were collected to assess vertical hydraulic gradients. As shown on Figure 3.4, these measurements indicated a slight (0.01 ft/ft) downward gradient within the area of mounding associated with the slag ponds, and a slight (0.003 to 0.03 ft/ft) upward gradient elsewhere beneath the plant. Measurements of water levels in the four deep wells conform to potentiometric surface contours constructed from measurements in wells screened at the water table, confirming that the groundwater flow direction at the top and base of the aquifer is essentially the same.

Rising-head slug tests conducted in 6 wells during the RA yielded estimates of hydraulic conductivity for the alluvial aquifer ranging from 2.8×10^{-4} cm/sec (0.8 ft/day) to 5×10^{-2} cm/sec (147 ft/day) (GSI, 1998d). The 6 values yield a geometric mean value of 15 ft/day. (The low-range value, obtained at well

water classification are agricultural water supply, industrial water supply, primary contact recreation, and warm-water habitat.

Under Ohio EPA Permit No. 0IF00008*GD, Shell discharges treated wastewater (from Outfalls 002 and 003), non-contact cooling water and stormwater (from Outfall 001), and non-process area stormwater (from Outfall 004) to Davis Creek at a cumulative permitted flow of 58.3 cfs. Stormwater run-off also drains to Davis Creek and/or the Ohio River via Outfalls 008, 009, 010, 011, 012, 013, and 014 under the terms of the General Stormwater Permit section of the NPDES permit (see Figure 3.2).



Shell Facility Boundary

GROUNDWATER SERVICES, INC.

GSI Job No.	G1986	Drawn By:	CRW
Issued:	12/23/99	Chk'd By:	RSL
Revised:	———	Aprv'd By:	RSL
Scale:	Not To Scale	**FIGURE 3.1**	

AERIAL VIEW OF SHELL BELPRE PLANT FROM NORTH

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD 004 343 117

GROUNDWATER SERVICES, INC.

TABLE 3.3
RESULTS OF RISING-HEAD SLUG TEST MEASUREMENTS

RCRA Release Assessment
Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD 004-343-117

Well No.	General Location	Portion Aquifer Screened	Lithology in Screen Interval	Test Date	Hydraulic Conductivity cm/sec	Hydraulic Conductivity ft/day
MW-22	Central plant area	Upper	SP	7/10/98	5.17E-02	146.6
MW-23	East of plant	Upper	SW	7/10/98	2.82E-04	0.8
MW-27	North-central plant area	Upper	SW	7/10/98	4.36E-02	123.6
MW-36	West of plant at Land Farm	Upper	SP	7/10/98	8.77E-03	24.9
MW-41	South-central plant area	Upper	SP	7/10/98	4.11E-03	11.7
MW-44	West end of plant	Upper	SP	7/10/98	1.14E-03	3.2
				Geometric Mean	**5.45E-03**	**15.4**

Notes:
1) Well locations shown on Figure 3.3B
2) Rising-head slug tests condicted in accordance with procedures specified in Appendix D of RA Workplan, Measurements collected using pressure transducer and electronic data logger.
3) Slug test records and calculations presented in Appendix C.
4) Slug tests analyzed in accordance with method described in Bouwer and Rice (1976)

GROUNDWATER SERVICES, INC.

Table 3.3B
MONITORING WELL CONSTRUCTION DATA

Release Characterization Screening Assessment
Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD 004-343-117

Well No.	Date Completed	Plant Coordinates West (ft)	Plant Coordinates North (ft)	Borehole Depth (ft)	Ground Elevation (ft)	Top Casing Elevation (ft)	Well Construction Materials	Casing Diameter (in)	Screened Interval Depth (ft BGS)	Screened Interval Lithology (USCS)	Screened Interval Base Elev. (ft MSL)	Screened Interval Top Elev. (ft MSL)	Historic Groundwater Elevations Minimum (ft MSL)	Historic Groundwater Elevations Maximum (ft MSL)	Historic Groundwater Elevations Average (ft MSL)	Aquifer Zone Screened
MW-R-1	7/15/82	343.40	2085.00	68	632.79	635.39	PVC	6	43.5-63.5	SW/GW	569.29	589.29	585.14	589.06	586.73	Upper
MW-B-8	8/9/90	2164.03	1944.14	60	631.60	633.96	PVC	4	40-55	SW/GW	576.60	591.60	584.01	586.73	585.75	Upper
MW-11	9/2/81	1846.06	948.15	17	597.40	597.50	PVC	4	6-16	ML/SM	581.40	591.40	582.46	588.35	583.45	Upper
MW-12A	1985	3082.34	2011.04	16	591.10	593.90	PVC	4	8-18	SW	573.10	583.10	583.13	589.86	585.44	Upper
MW-13	9/2/81	2655.43	1748.89	17	587.50	589.47	PVC	4	7-17	ML/SW	570.50	580.50	582.82	586.51	584.96	Upper
MW-14	9/2/81	2509.29	1684.63	20	586.80	588.33	PVC	4	7-17	CL/SM	569.80	579.80	583.38	587.04	585.22	Upper
MW-15	9/2/81	2372.52	1619.76	20	591.20	591.53	PVC	4	8-18	CL/SW	573.20	583.20	584.14	586.95	585.52	Upper
MW-17	7/14/82	2457.40	2096.20	57	631.00	632.81	PVC	4	47.5-57.5	SW	573.50	583.50	579.55	588.01	585.94	Upper
MW-18	7/13/82	1220.60	1775.40	56	629.80	631.03	PVC	4	41-51	SW	578.80	588.80	584.17	588.33	586.23	Upper
MW-B-19	8/14/90	2256.17	1941.85	60	631.60	634.03	PVC	4	40-55	SW/GW	576.60	591.60	586.57	587.11	586.84	Upper
MW-21	7/13/82	3735.10	2605.10	30	604.70	605.67	PVC	4	8.5-28.5	SP	576.20	596.20	587.02	601.99	597.39	Upper
MW-22	7/13/82	1958.10	2316.90	58	630.68	630.68	PVC	4	47.5-57.5	SP	573.18	583.18	583.60	588.41	585.30	Upper
MW-23	7/13/82	-234.70	1583.00	25	605.40	605.91	PVC	4	7-27	SW	578.40	598.40	591.00	604.41	599.68	Upper
MW-24	7/13/82	4824.70	2610.90	58	631.90	633.63	PVC	4	45-55	SP	576.90	586.90	584.05	587.04	585.24	Upper
MW-25	7/13/82	4445.90	2590.80	58	632.10	633.37	PVC	4	44-54	SP	578.10	588.10	584.20	588.37	586.54	Upper
MW-26	10/1/85	692.34	1895.75	58	632.50	633.94	PVC	4	44-54	SW	578.50	588.50	584.47	588.44	586.46	Upper
MW-27	1/23/86	2404.00	3439.04	65	637.80	640.44	PVC	4	53-63	SW	574.80	584.80	584.73	588.74	586.50	Upper
MW-28	1985-86	501.76	3245.68	65	641.50	643.32	PVC	4	53.5-63.5	SW	578.00	588.00	584.60	588.72	586.55	Upper
MW-29	1985-86	312.23	1899.08	68	632.70	635.29	PVC	6	46-66	SW	566.70	586.70	585.04	588.39	586.41	Upper
MW-30	1985-86	440.94	1796.08	68	632.30	634.86	PVC	6	46.5-66.5	SW	565.80	585.80	584.29	589.03	586.28	Upper
MW-31	1989	785.49	1970.70	60	631.10	633.11	PVC	4	46-56	SW	575.10	585.10	584.37	588.51	586.63	Upper
MW-32D	9/24/96	3236.90	1423.68	47	624.74	627.34	PVC	4	62.8-72.8	SW	551.94	561.94	584.41	585.04	584.80	Lower
MW-32S	9/27/96	3239.67	1428.53	42	627.76	627.24	PVC	4	34.8-44.8	SW	582.96	592.96	584.42	585.03	584.80	Upper
MW-33	9/25/96	2623.36	1775.45	20	589.40	591.89	PVC	4	10-20	CL/ML	569.40	579.40	583.49	586.34	585.26	Upper
MW-34	9/26/96	1689.64	1364.67	20	599.30	602.01	PVC	4	10-20	SW	579.30	589.30	584.20	587.07	586.01	Upper
MW-35	9/25/96	1917.27	2593.94	50.3	634.20	636.64	PVC	4	40.3-50.3	SW	583.90	593.90	586.91	587.58	587.21	Upper

Notes:

1) Data from a Shell Oil Company report entitled: "Geohydrological Site Assessment, Marietta Chemical Plant, Ohio", by William J. Crawford, dated 1/28/83; a Woodward-Clyde Consultants report, entitled "Final report on Lithologic, Chemical Plant in Belpre, Ohio", dated 3/21/96; a memorandum by Richard Lewis of Shell Development Company entitled "Observation Well Network Evaluation", dated 2/29/96; groundwater monitoring data ODNR well logs/drilling reports supplied by Shell Chemical Company.
2) Aquifer Zone Screened refers to the interval of the unconfined aquifer that is screened, referenced to the saturated interval. "Upper" refers to the upper 1/3 - 1/2 of the interval. "Lower" refers to the lower 1/3 - 1/2 of the interval. Thirteen of the wells completed in the upper part of the saturated interval have screens that straddle the average potentiometric surface elevations measured in the In the remaining 12 wells, the average potentiometric elevation is above the top of the well screen. MW-32D is the only lower aquifer completion and it is paired with MW-32S. This pair does not show the presence of a vertical gradient at that location in the plant.
3) Monitoring wells on the Shell Chemical Plant have been labeled variously in previous reports and analytical data. Permanent monitoring wells are referred to in this table with the prefix "MW-". MW-R-1 was originally intended as a MW-B-19 were installed originally as borings, later converted to monitoring wells. Because they have been previously referred to in maps and recovery well, thus the R-1 designation. MW-B-8 and analytical reports as "B-8" and "B-19", these labels are preserved in the new designations.
4) PVC = Polyvinyl chloride; GW = Gravel, sandy, well-graded; SP = Sand, gravelly, poorly-graded; MSL = Mean Sea Level
   USCS = Unified Soil Classification System; ML = Silt; SW = Sand, gravelly, well-graded
   CL = Silty clay; SM = Sand, silty; BGS = Below Ground Surface
5) Ground level and casing elevations were resurveyed during August, 1997, by Vernon Surveying Co, Marietta, Ohio.
6) Historic groundwater elevation statistics include all available data to September 1997.

MAJOR DIVISIONS			GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVEL (LITTLE OR NO FINES)		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
				GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	Silty gravels, gravel-sand-silt mixtures
				GC	Clayey gravels, gravel-sand-clay mixtures
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	CLEAN SAND (LITTLE OR NO FINES)		SW	Well-graded sands, gravelly sands, little or no fines
				SP	Poorly-graded sands, gravelly sands, little or no fines
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	Silty sands, sand-silt mixtures
				SC	Clayey sands, sand-clay mixtures
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50%		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
				OL	Organic silts and organic silty clays of low plasticity
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50%		MH	Inorganic silts, micaceous or diatomaceous fine sand or silty soils
				CH	Inorganic clays or high plasticity, fat clays
				OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS				PT	Peat, humus, swamp soils with high organic contents

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

KEY TO SYMBOLS


SHELBY TUBE SAMPLE


GEOPROBE PUSH SAMPLE


SPLIT-SPOON SAMPLE


NO RECOVERY


CONTINUOUS CORE BARREL SAMPLE


STATIC WATER LEVEL


HAND AUGER SAMPLE

GROUNDWATER SERVICES, INC.

UNIFIED SOIL CLASSIFICATION SYSTEM

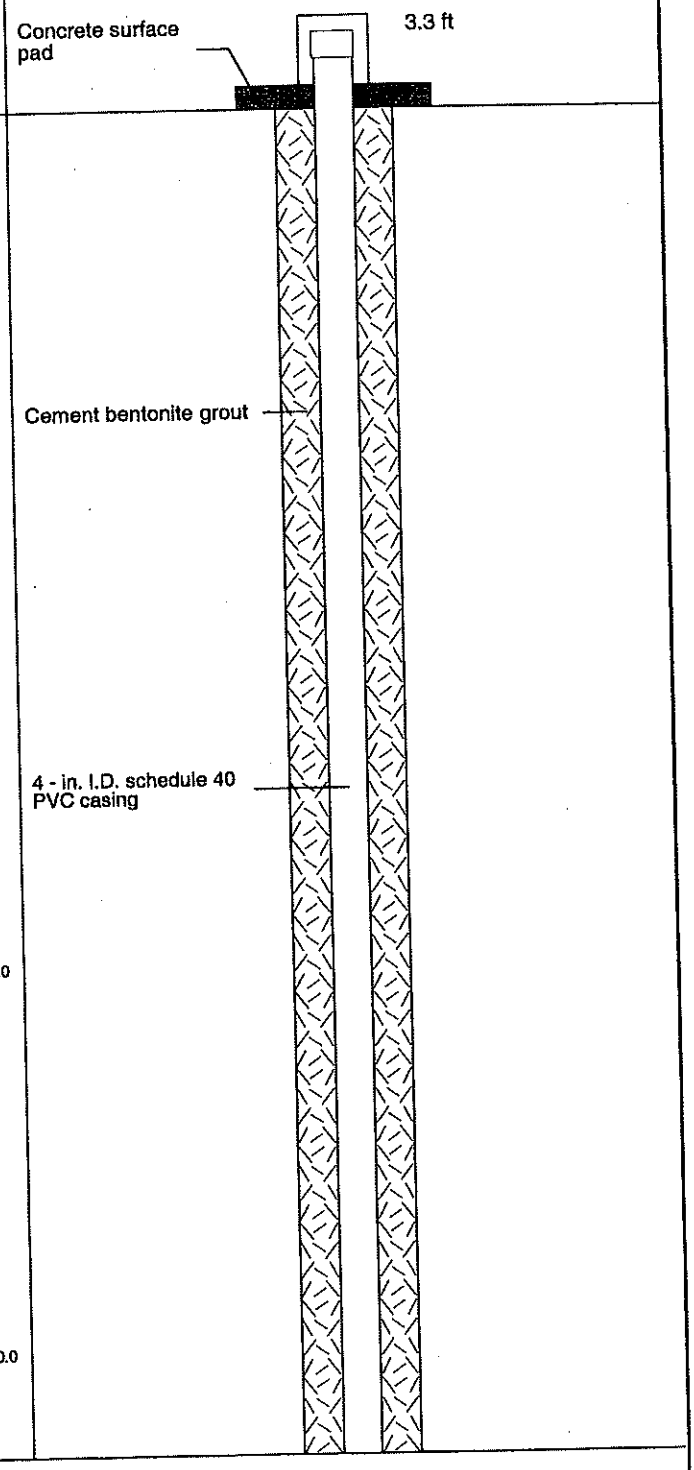
GSI Job No.	G-1986	Drawn By:	KVS	FIGURE B.2
Issued:	12/99	Aprv'd By:	KVS	

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 8-inches

COMPLETION DATE: July 15, 1999
GROUND SURFACE ELEV.: 589 ft, MSL
TOP OF CASING ELEV: 592.64 ft, MSL
PLANT COORDINATES: N 2298.2 ft; W -3485.3 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)
GROUND SURFACE	0				
Brown, silty CLAY (CL) with silty sand pockets, iron nodules and iron staining - with roots present in upper 0.75 ft	5				0.2
Brown, plastic CLAY (CH) with silt and sand - with silt and sand content increasing with depth below 9.0 ft					
Brown and red, clayey SAND (SC) with silt and gravel	10				0.1
	15				
Brown and red, silty SAND (SM) with gravel - with silt content decreasing with depth below 18.0 ft	20				0.0
	25				
Brown, coarse grained SAND (SP) with gravel	30				0.0
	35				

WELL CONSTRUCTION



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GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM

MONITORING WELL MW-38D

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

GSI Job No. G-1986
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FIGURE B.3

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 8-inches

COMPLETION DATE: July 15, 1999
GROUND SURFACE ELEV.: 589 ft, MSL
TOP OF CASING ELEV: 592.64 ft, MSL
PLANT COORDINATES: N 2298.2 ft; W -3485.3 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
CONTINUED						CONTINUED
Brown, coarse grained SAND (SP) with gravel - with 6 to 13-inch interbedded tan fine sand layers present at 36.0, 39.5, 42.25, and 46.0 ft	35 40 45				0.0	Cement bentonite grout Bentonite pellet seal No. 5 sand backfill (20 - 40 equilivalent) 4 - in. I.D. Schedule 80 PVC screen, No. 10 slot Screw on PVC sump 36.0 ft 38.0 ft 40.0 ft 49.0 ft 49.8 ft
Gray SHALE with fine sand sediment - reddish-brown below 52.0 ft	50 55				0.0	
Total Depth = 57.0 ft	60 65 70					

Note:
1. Groundwater seepage encountered at approximate 9.5 ft depth during drilling.

GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-38D

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

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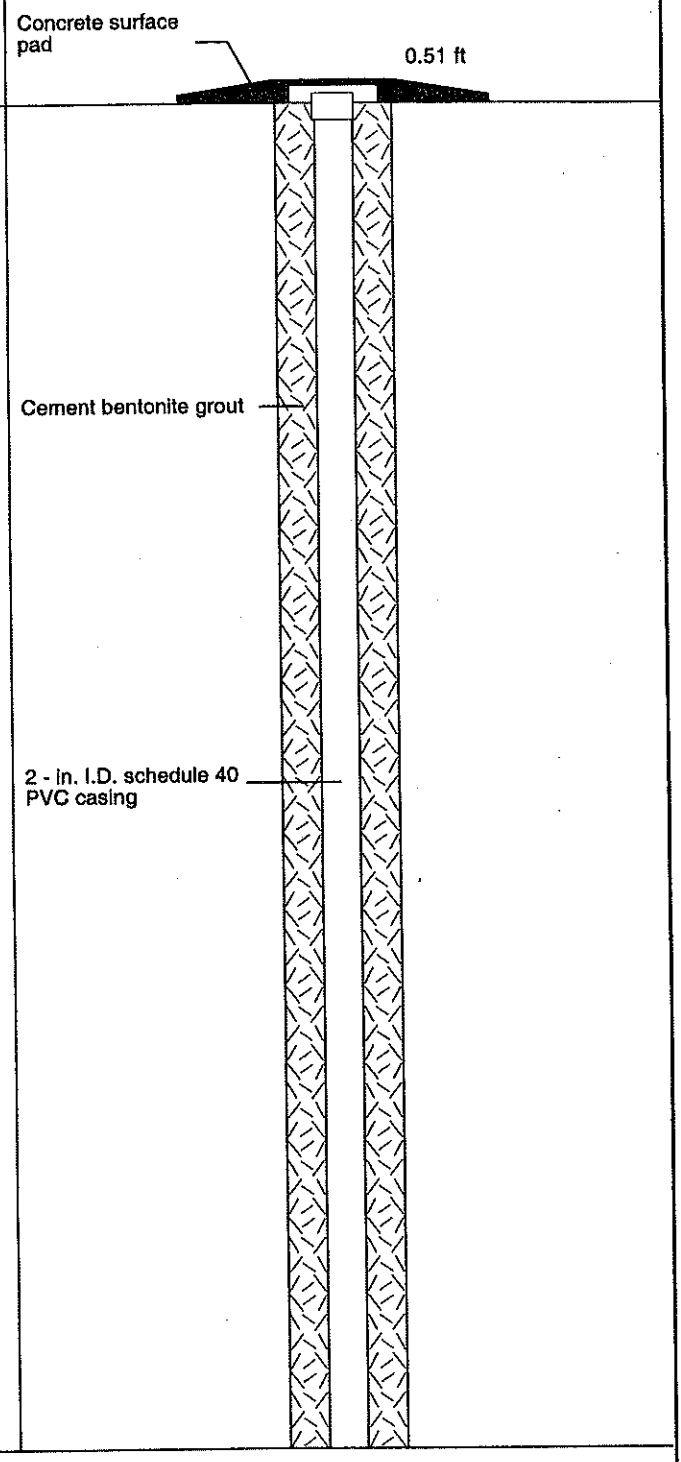
FIGURE B.3

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 6-inches

COMPLETION DATE: June 29, 1999
GROUND SURFACE ELEV.: 630.3 ft, MSL
TOP OF CASING ELEV: 629.79 ft, MSL
PLANT COORDINATES: N 2029.7 ft; W -1445.7 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)
GROUND SURFACE	0				
Brown, silty CLAY (CL) with silty sand pockets, iron nodules and iron staining					
Brown, sandy SILT (ML) with gravel - with silt content increasing with depth below 5.25 ft	5				
Brown, coarse grained SAND (SP) with gravel	10 15				
Brown, silty fine SAND (SM) with gravel	20 25 30 35				

WELL CONSTRUCTION



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GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM

MONITORING WELL MW-46

Shell Chemical Company, Belpre, Ohio
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FIGURE B.4

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 6-inches

COMPLETION DATE: June 29, 1999
GROUND SURFACE ELEV.: 630.3 ft, MSL
TOP OF CASING ELEV: 629.79 ft, MSL
PLANT COORDINATES: N 2029.7 ft; W -1445.7 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
CONTINUED						CONTINUED
Brown, silty fine SAND (SM) with gravel	35					Cement bentonite grout
	40					41.0 ft
						Bentonite pellet seal
	45					44.5 ft
						46.0 ft
- with decaying wood material present at 47.0 ft						No. 5 sand backfill (20 - 40 equilivalent)
	50					2 - in. I.D. Schedule 40 PVC screen, No. 10 slot
	55					Screw on PVC sump
						55.0 ft
						55.8 ft
Total Depth = 58.0 ft	60					
	65					
	70					

Note:

1. Groundwater seepage encountered at approximate 49 ft depth during drilling.

GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-46

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

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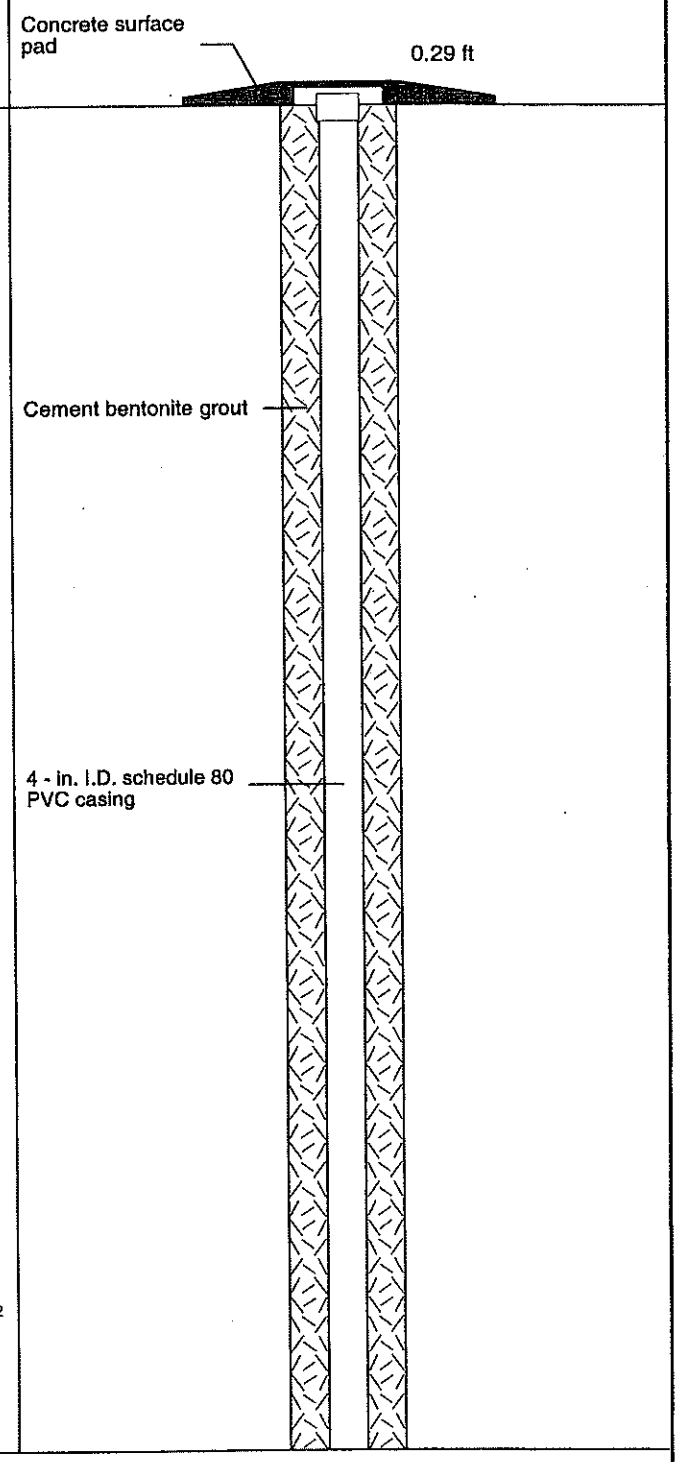
FIGURE B.4

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 8-inches

COMPLETION DATE: July 16, 1999
GROUND SURFACE ELEV.: 630.10 ft, MSL
TOP OF CASING ELEV: 629.81 ft, MSL
PLANT COORDINATES: N 2738.6 ft; W -2100.5 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)
GROUND SURFACE	0				
Brown and red, silty SAND (SM) - with asphalt debris in upper 0.5 ft					
Brown and gray, silty CLAY (CL) with iron nodules and iron staining					1.1
Brown, clayey SAND (SC) with gravel and iron staining	5				
Brown, silty SAND (SM) with gravel - with interlayered 5 to 8-inch fine sand layers present at 8.5, 11.0, and 15.0 ft	10				0.7
th sandy clay content noted below 15.5 ft	15				
Brown, coarse grained SAND (SP) with gravel - grading to fine grained sand below 24.0 ft	20				0.4
	25				
	30				0.2
	35				

WELL CONSTRUCTION



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LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-47

Shell Chemical Company, Belpre, Ohio
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FIGURE B.5

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 8-inches

COMPLETION DATE: July 16, 1999
GROUND SURFACE ELEV.: 630.10 ft, MSL
TOP OF CASING ELEV: 629.81 ft, MSL
PLANT COORDINATES: N 2738.6 ft; W -2100.5 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
CONTINUED						CONTINUED
Brown, coarse grained SAND (SP) with gravel	35					
	40				0.2	Cement bentonite grout
	45					
	50				0.1	4 - in. I.D. schedule 80 PVC casing
	55					
- with decaying wood material present at 47.0 ft	60				0.0	
	65					
	70				0.0	

GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-47

Shell Chemical Company, Belpre, Ohio
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FIGURE B.5

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 8-inches

COMPLETION DATE: July 16, 1999
GROUND SURFACE ELEV.: 630.10 ft, MSL
TOP OF CASING ELEV: 629.81 ft, MSL
PLANT COORDINATES: N 2738.6 ft; W -2100.5 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
CONTINUED						CONTINUED
Brown, coarse grained SAND (SP) with gravel	70					
	75				0.0	Cement bentonite grout — 73.0 ft; Bentonite pellet seal — 75.0 ft
	80				0.0	77.0 ft; No. 5 sand backfill (20 - 40 equilivalent); 4 - in. I.D. Schedule 80 PVC screen, No. 10 slot
grading to fine sand with silt below 85.0 ft	85					Screw on PVC sump — 86.0 ft; 86.8 ft
Dark gray SHALE with fine sand sediment	90				0.0	
- reddish-brown below 90 ft	95					
Total Depth = 97.0 ft	100					
	105					

Note:

1. Groundwater seepage encountered at approximate 57 ft depth during drilling.

GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM

MONITORING WELL MW-47

Shell Chemical Company, Belpre, Ohio
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FIGURE B.5

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 6-inches

COMPLETION DATE: June 28, 1999
GROUND SURFACE ELEV.: 629.9 ft, MSL
TOP OF CASING ELEV: 629.5 ft, MSL
PLANT COORDINATES: N 2737.0 ft; W -2173.2 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
GROUND SURFACE	0					Concrete surface pad; 0.4 ft
Brown, silty CLAY (CL) with gravel, and silty sand pockets						
- with sand increasing with depth below 10.0 ft	5, 10					Cement bentonite grout
Tan, medium grained SAND (SP) with gravel						
- with chemical odor from 12 to 18 ft	15					
- with large stones and no chemical odor below 18 ft	20, 25, 30, 35					2 - in. I.D. schedule 40 PVC casing

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GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-48

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

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FIGURE B.6

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 6-inches

COMPLETION DATE: June 28, 1999
GROUND SURFACE ELEV.: 629.9 ft, MSL
TOP OF CASING ELEV: 629.5 ft, MSL
PLANT COORDINATES: N 2737.0 ft; W -2173.2 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
CONTINUED						CONTINUED
Tan, medium grained, poorly graded SAND (SP) with gravel	35, 40, 45, 50, 55					Cement bentonite grout; 2 - in. I.D. Schedule 40 PVC screen, No. 10 slot; Bentonite pellet seal; 43.0 ft; 45.0 ft; 46.0 ft; No. 5 sand backfill (20 - 40 equilivalent); Screw on PVC sump; 55.0 ft; 55.8 ft
Total Depth = 58.0 ft	60, 65, 70					

Note:

1. Groundwater seepage encountered at approximate 48 ft depth during drilling.

GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-48

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

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FIGURE B.6

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 6-inches

COMPLETION DATE: June 29, 1999
GROUND SURFACE ELEV.: 631.1 ft, MSL
TOP OF CASING ELEV: 630.7 ft, MSL
PLANT COORDINATES: N 1846.3 ft; W -2421.0 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
GROUND SURFACE	0					Concrete surface pad; 0.4 ft
Brown and gray, silty CLAY (CL) with gravel, silty sand pockets, iron nodules and iron staining						
- with silt content increasing with depth below 6.0 ft	5					
Gray, clayey SILT (ML) with gravel, silty sand pockets and iron staining						Cement bentonite grout
- with silt and sand content increasing with depth below 14.5 ft	10					
	15					2 - in. I.D. schedule 40 PVC casing
	20					
- with decaying wood material present at 27.25 ft	25					
Dark gray, stiff CLAY (CH) with silt and gravel	30					
	35					

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GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-49S

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

GSI Job No. G-1986

Issued: 12/99

FIGURE B.7

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 6-inches

COMPLETION DATE: June 29, 1999
GROUND SURFACE ELEV.: 631.1 ft, MSL
TOP OF CASING ELEV: 630.7 ft, MSL
PLANT COORDINATES: N 1846.3 ft; W -2421.0 ft

SOIL DESCRIPTION

CONTINUED

Dark gray, stiff CLAY (CH) with silt and gravel

Brown, clayey SAND (SC) with silt and gravel

Brown, silty fine SAND (SM) with gravel

- with clayey silty sand from 46.0 to 48.0 ft

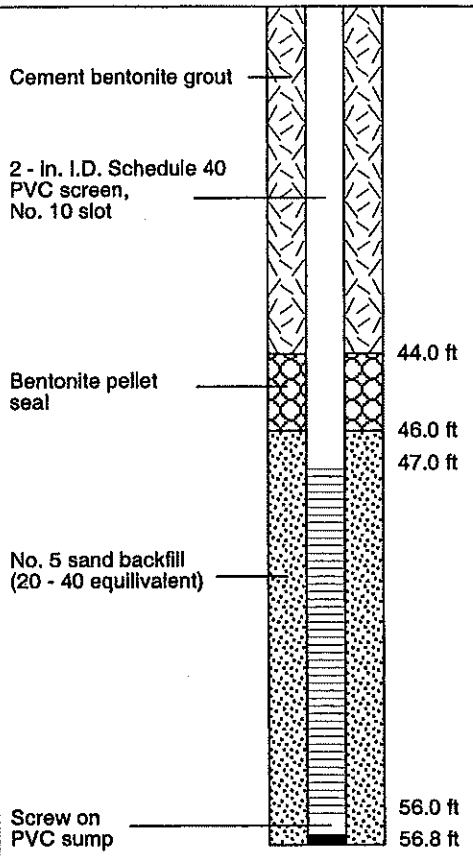
Total Depth = 58.0 ft

DEPTH IN FEET | WATER LEVEL | SAMPLE | BLOWS/FT | OVA (ppm)

35 40 45 50 55 60 65 70

WELL CONSTRUCTION

CONTINUED



Note:

1. No groundwater seepage encountered during drilling.

GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-49S

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

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FIGURE B.7

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 8-inches

COMPLETION DATE: July 18, 1999
GROUND SURFACE ELEV.: 631.10 ft, MSL
TOP OF CASING ELEV: 631.01 ft, MSL
PLANT COORDINATES: N 1845.6 ft; W -2334.6 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
GROUND SURFACE	0					Concrete surface pad; 0.9 ft
Brown, silty SAND (SM) - with asphalt debris in upper 0.5 ft					0.5	
Gray, silty CLAY (CL) with gravel, sand pockets, iron nodules and iron staining	5					Cement bentonite grout
	10				10.0	
	15					4 - in. I.D. schedule 80 PVC casing
	20				2.8	
- with silt content increasing with depth below 24.0 ft	25					
- with decaying wood type material present at 29.0 ft	30				5.7	
	35					

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GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-49D

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

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FIGURE B.8

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 8-inches

COMPLETION DATE: July 18, 1999
GROUND SURFACE ELEV.: 631.10 ft, MSL
TOP OF CASING ELEV: 631.01 ft, MSL
PLANT COORDINATES: N 1845.6 ft; W -2334.6 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
CONTINUED						CONTINUED
Gray, silty CLAY (CL) with gravel, sand pockets, iron nodules and iron staining	35					
Brown, clayey SAND (SC) with silt and gravel	40				0.7	Cement bentonite grout
- with clay content decreasing with depth below 45.0 ft	45					
Brown, coarse grained SAND (SP) with gravel	50				0.4	4 - in. I.D. schedule 80 PVC casing
	55					
	60				0.2	
	65					
	70				0.3	

GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-49D

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

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FIGURE B.8

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 8-inches

COMPLETION DATE: July 16, 1999
GROUND SURFACE ELEV.: 631.10 ft, MSL
TOP OF CASING ELEV: 631.01 ft, MSL
PLANT COORDINATES: N 1845.6 ft; W -2334.6 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
CONTINUED						CONTINUED
Brown, coarse grained SAND (SP) with gravel - with 4 to 8-inch fine sand layers present at 70.0 and 74.0 ft - with clay content increasing with depth below 78.0 ft	70 75				0.3	Cement bentonite grout Bentonite pellet seal 72.0 ft 74.0 ft 76.0 ft No. 5 sand backfill (20 - 40 equilivalent)
Brown, clayey SAND (SC) with gravel and fine sand pockets	80 85				0.1	4 - in. I.D. Schedule 80 PVC screen, No. 10 slot 85.0 ft Screw on PVC sump 85.8 ft
Dark gray SHALE with fine sand sediment Total Depth = 87.0 ft	90 95 100 105					

Note:

1. Groundwater seepage encountered at approximate 57 ft depth during drilling.

GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM

MONITORING WELL MW-49D

Shell Chemical Company, Belpre, Ohio
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FIGURE B.8

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 6-inches

COMPLETION DATE: June 29, 1999
GROUND SURFACE ELEV.: 632.1 ft, MSL
TOP OF CASING ELEV: 632.0 ft, MSL
PLANT COORDINATES: N 2423.7 ft; W -2125.3 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
GROUND SURFACE	0					Concrete surface pad; 0.1 ft
Brown, silty CLAY (CL) with gravel, silty sand pockets, iron nodules and iron staining						
- with sand increasing with depth below 8.0 ft	5, 10					Cement bentonite grout
Brown, silty fine SAND (SM) with gravel						
- with chemical odor from 12 to 18 ft	15					
- with large stones and no chemical odor below 18 ft						2 - in. I.D. schedule 40 PVC casing
Brown SILT (ML) with fine sand, gravel and iron staining	20					
Brown, silty fine SAND (SM) with gravel	25, 30, 35					

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GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM

MONITORING WELL MW-50

Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

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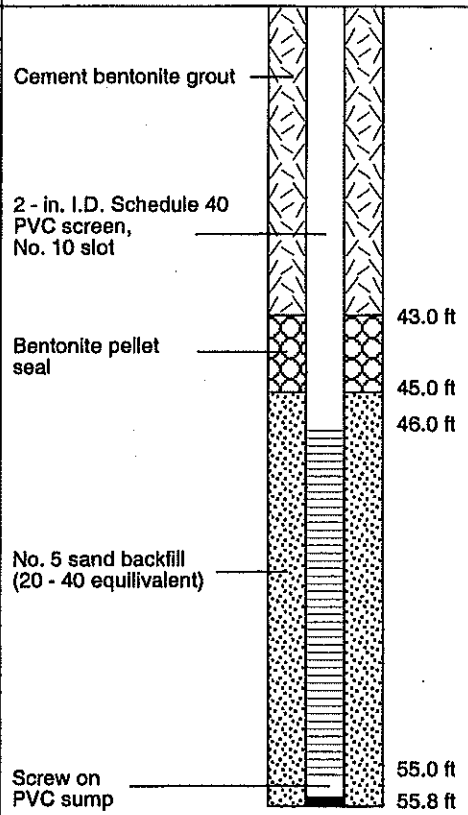
FIGURE B.9

GEOLOGIST: Kevin V. Soders
DRILLER: Alliance Environmental, Inc.
DRILLING METHOD: Rotasonic
HOLE DIAMETER: 6-inches

COMPLETION DATE: June 29, 1999
GROUND SURFACE ELEV.: 632.1 ft, MSL
TOP OF CASING ELEV: 632.0 ft, MSL
PLANT COORDINATES: N 2423.7 ft; W -2125.3 ft

SOIL DESCRIPTION	DEPTH IN FEET	WATER LEVEL	SAMPLE	BLOWS/FT	OVA (ppm)	WELL CONSTRUCTION
CONTINUED						CONTINUED
Brown, silty SAND (SM) with gravel	35					
Brown, coarse grained SAND (SP) with gravel	40					
	45					
	50					
	55					
Total Depth = 58.0 ft	60					
	65					
	70					



Note:

1. Groundwater seepage encountered at approximate 49 ft depth during drilling.

GROUNDWATER SERVICES, INC.

LOG & AS-BUILT DIAGRAM
MONITORING WELL MW-50

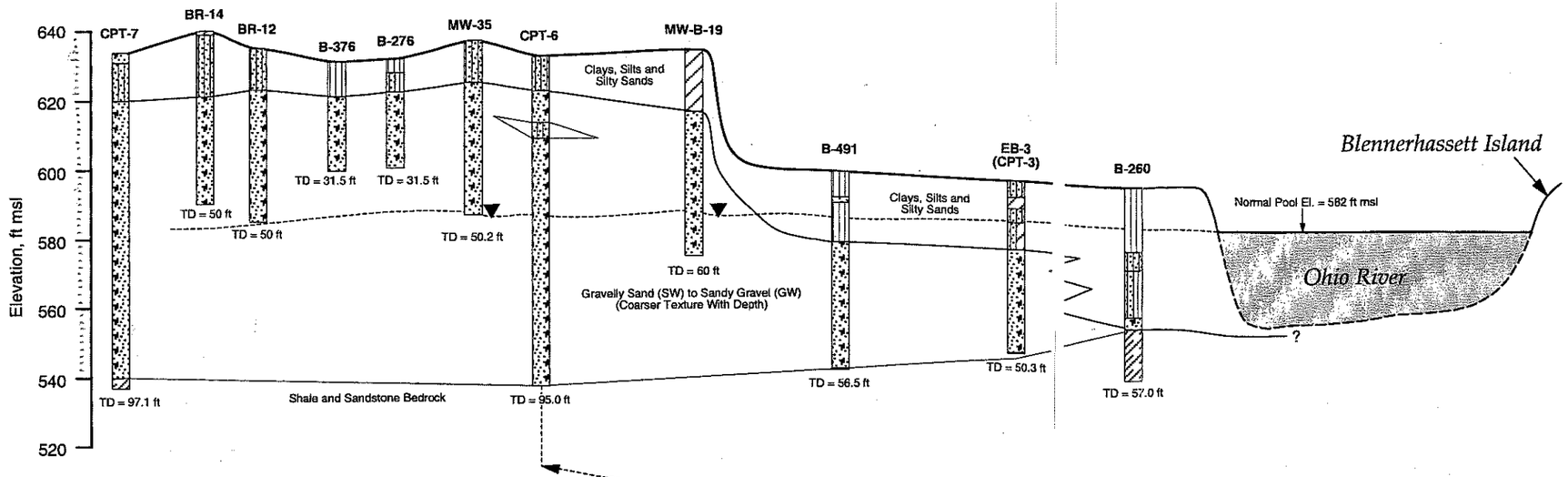
Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD-004-343-117

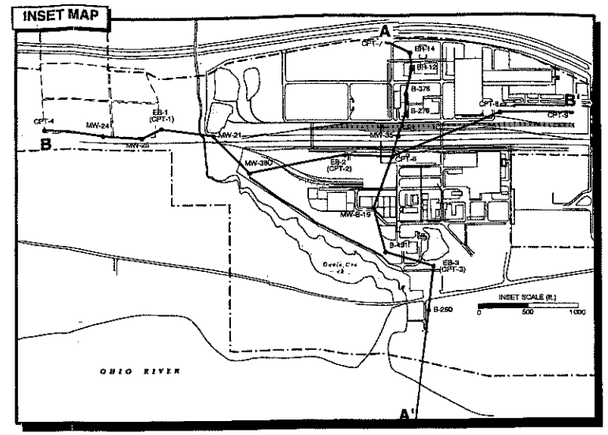
GSI Job No. G-1986
Page 2 of 2
Issued: 12/99

FIGURE B.9

North
A

South
A'

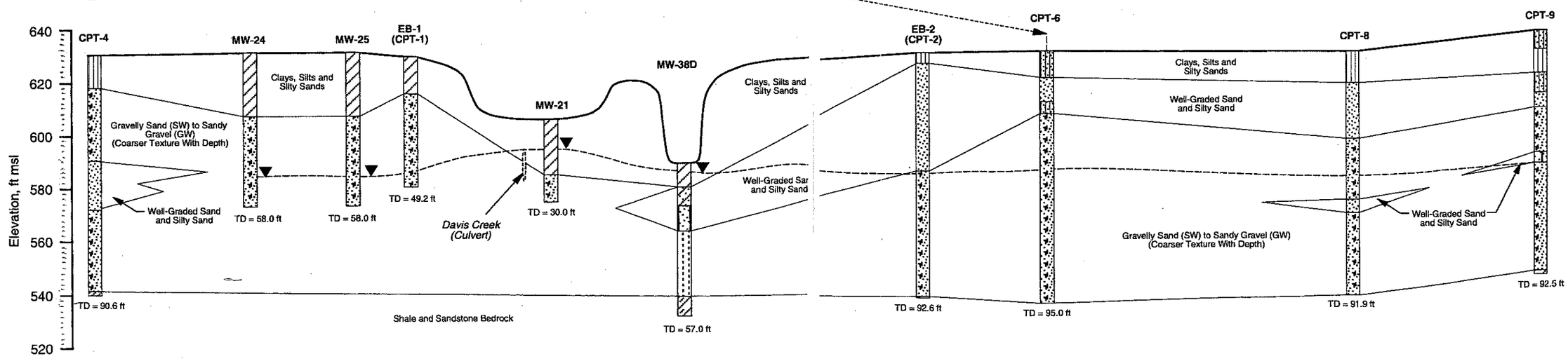




West
B

Common Boring

East
B'



LEGEND

- Silty CLAY (CL)
- SILT (ML)
- Clayey SAND (SC)
- Silty SAND (SM)
- Well graded SAND (SW)
- Poorly graded SAND (SP)
- Gravelly SAND (SW) to Sandy GRAVEL (GW)
- Bedrock (Permian Sandstone and Shale)
- Interpolated Potentiometric Surface (Measured 8/3/99) Along Plane of Section

HORIZONTAL SCALE, ft.

0 200 400 600 800

VERTICAL SCALE: 1 INCH = 40 ft

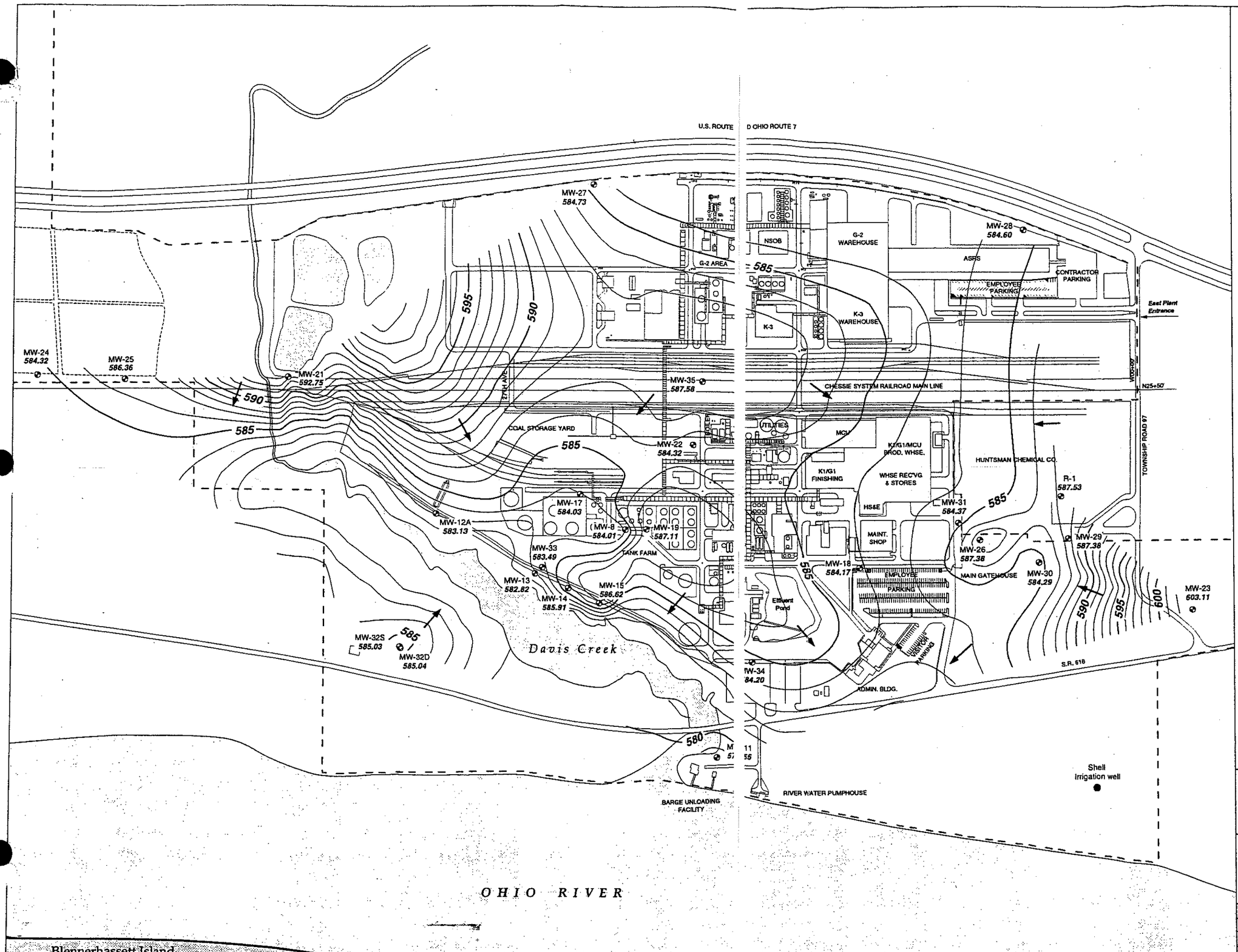
VERTICAL EXAGGERATION: 10X

GROUNDWATER SERVICES, INC.

GSI Job No.	G-1986	Drawn By:	DLB/KVS
Issued:	12/23/99	Chk'd By:	RSL
Revised:	———	Aprv'd By:	RSL
Scale:	As Shown	FIGURE 3.3	

GEOLOGIC CROSS-SECTIONS

RCRA Facility Investigation
Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD 004 343 117



TRUE N

PLANT N

LEGEND

- Groundwater monitoring well
- 600 — Potentiometric surface contour, ft MSL, (C.I.= 1 ft)
- 584.93 — Potentiometric surface elevation (ft MSL) measured on 4/14/97
- Inferred Groundwater flow direction

NOTES:

1) The potentiometric surface was interpolated, based on the assumption that surface water in ponds, Davis Creek, and the Ohio River is in equilibrium with adjacent groundwater.
2) Potentiometric contours based on monitoring well casing elevation data from original well installations during 1982-1996.

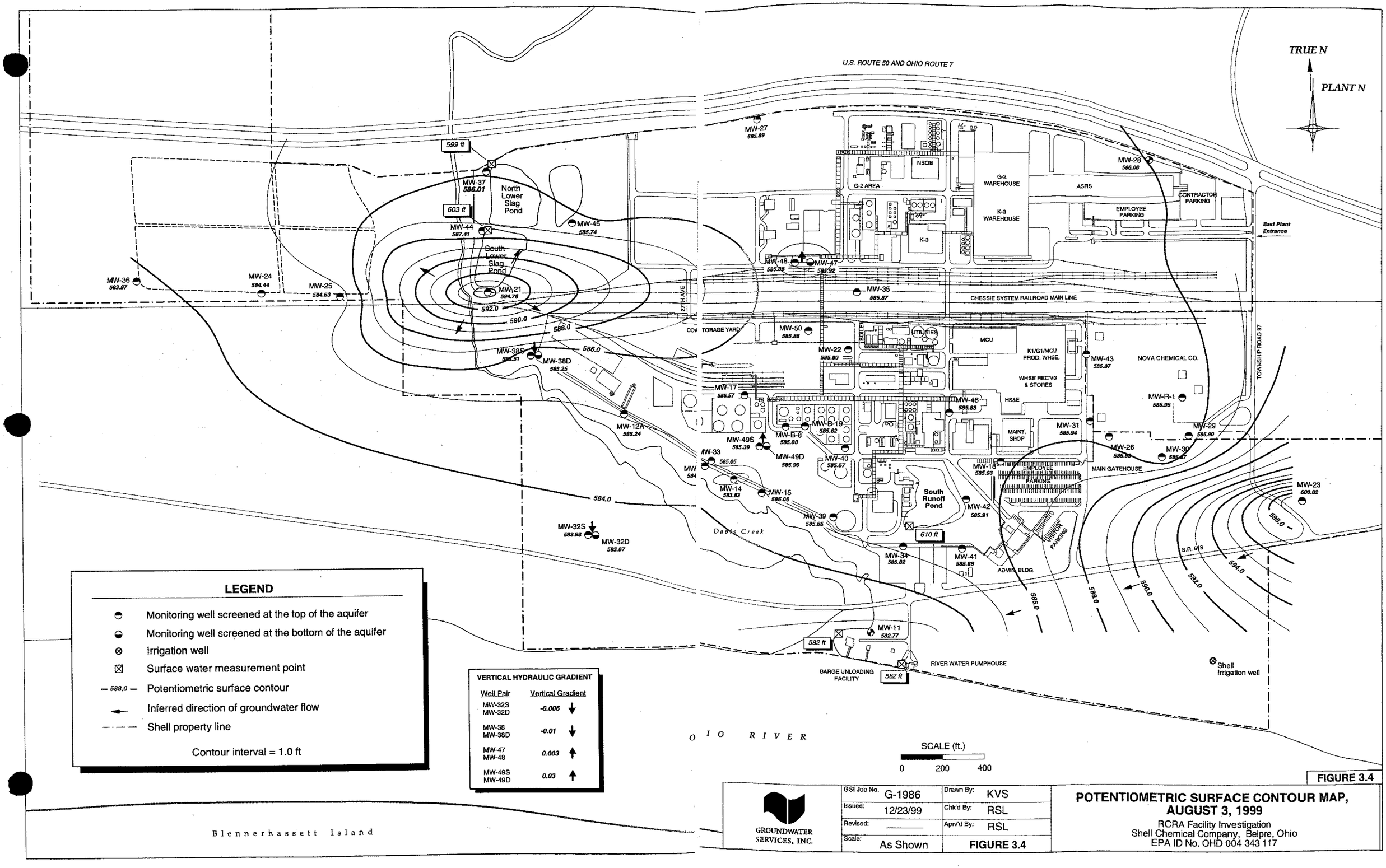
SCALE (ft.)
0 200 400

GROUNDWATER SERVICES, INC.

POTENTIOMETRIC SURFACE CONTOUR MAP: April 14, 1997

RCRA Release Assessment
Shell Chemical Company Belpre, Ohio
EPA ID No. OHD 004 343 117

GSI Job No:	G-1986	Drawn By:	DLB
Issued:	11/25/98	Chk'd By:	RSL
Revised:		App'd By:	RSL
Scale:	As Shown	FIGURE 3.3A	



LEGEND

- Monitoring well screened at the top of the aquifer
- Monitoring well screened at the bottom of the aquifer
- Irrigation well
- Surface water measurement point
- — 588.0 — Potentiometric surface contour
- Inferred direction of groundwater flow
- Shell property line

Contour interval = 1.0 ft

VERTICAL HYDRAULIC GRADIENT

Well Pair	Vertical Gradient
MW-32S MW-32D	-0.006 ↓
MW-38 MW-38D	-0.01 ↓
MW-47 MW-48	0.003 ↑
MW-49S MW-49D	0.03 ↑

SCALE (ft.)

0 200 400

FIGURE 3.4

GROUNDWATER SERVICES, INC.

GSI Job No.	G-1986	Drawn By:	KVS
Issued:	12/23/99	Chk'd By:	RSL
Revised:		Aprv'd By:	RSL
Scale:	As Shown	FIGURE 3.4	

POTENTIOMETRIC SURFACE CONTOUR MAP, AUGUST 3, 1999

RCRA Facility Investigation
Shell Chemical Company, Belpre, Ohio
EPA ID No. OHD 004 343 117

Baker

Michael Baker Jr., Inc.
5088 West Washington Street
Second Floor
Charleston, West Virginia 25313
(304) 769-0821
FAX (304) 769-0822

Letter of Transmittal

To:	URS Diamond Corp.	S.O. No.:	23734-002-0000
	c/o Dupont Washington Works, Building 1	Project:	Blennerhassett Island Bridge
	State Route 892, Dupont Road		Over Ohio River
	Washinton, WV 26181		Core Borings
Attn.:	Ms. Lucinda Tilton	Date:	March 5, 2002

We are forwarding the following: ☒ Attached ☐ Under Separate Cover ☐ _____

DWG. NO	Quantity	Description	Comments
	1 set	Log of Test Borings: B-1 to B-66, B-72 to B-86, B-101, B-102, A-7 to A-10	
CB1	1	Core Boring Layout – Ohio Approach Spans	
CB2	1	Core Boring Layout – Ohio Approach Spans	
CB3	1	Core Boring Layout – West Virginia Approach Spans	

THESE ARE TRANSMITTED as checked below:

☒ As requested	☐ No exception taken	☐ Revise and resubmit
☐ For review and comment	☐ Rejected – See remarks	☐ Submit specified items
☐ For your information	☐ Proceed subject to corrections noted	☐ _____

GENERAL COMMENTS:

Michael Baker Jr., Inc.

By: Jim Francisco, PE

Title: Deputy Project Manager

Page: 1 Of 1

H:\PROJ\DESIGN\Blennerhassett\Correspondence\URSlet030402.doc

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-7
Project	Blennerhassett Bridge	Date Started	12/3/2001
Boring Location	Station 2139+50 Offset 55.0 Rt.	Date Completed	12/4/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
589.47	0.0									
589.17	0.3	0.3 TOPSOIL								
		Brown, SILTY CLAY, moist, medium stiff - stiff	1	SS	0.0-1.5	2-2-3 (5)	53			
			2	SS	5.0-6.5	6-6-7 (13)	100			
579.47	10.0	9.7								
		Brown, CLAYEY SAND, moist, dense	3	SS	10.0-11.5	7-7-15 (22)	87			
574.47	15.0	5.0								
		Brown, SAND, medium grained, some gravel, wet - saturated, dense - very dense	4	SS	15.0-16.5	5-7-10 (17)	80			
			5	SS	20.0-21.5	5-7-6 (13)	100			
			6	SS	25.0-26.5	12-15-26 (41)	100			
			7	SS	30.0-31.5	11-14-21 (35)	100			
		34.5								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	25	ft. ▽
At Completion	13.4	ft. ▼
After	24 Hrs.	22.1 ft. ▼
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/7/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-7
Project	Blennerhassett Bridge	Date Started	12/3/2001
Boring Location	Station 2139+50 Offset 55.0 Rt.	Date Completed	12/4/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium grained, some gravel, wet - saturated, dense - very dense ***(LAYER CONTINUED DESCRIPTION REPEATED)***	8	SS	35.0-36.5	18-15-20 (35)	0			
			9	SS	40.0-41.5	8-12-10 (22)	100			
			10	SS	45.0-46.5	8-6-5 (11)	73			
539.97	49.5									
538.47	51.0	1.5 CLAYSTONE, logged from cuttings, no recovery	11 1	SS NX	49.5-49.5 49.5-51.0	50/0.0	0 0	0		
		Gray, SANDSTONE, fine to medium grained, slightly micaceous, slightly weathered, medium hard	2	NX	51.0-56.0		46	10		
			3	NX	56.0-61.0		28	28		
			4	NX	61.0-66.0		98	90		
		24.2	5	NX	66.0-71.0		100	94		

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25	ft. ▽
At Completion	13.4	ft. ▼
After	24 Hrs. 22.1	ft. ▼
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/7/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-7
Project	Blennerhassett Bridge	Date Started	12/3/2001
Boring Location	Station 2139+50 Offset 55.0 Rt.	Date Completed	12/4/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
514.27	75.2	Gray, SANDSTONE, fine to medium grained, slightly micaceous, slightly weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*		6	NX	71.0-76.0		100	100		
511.67	77.8	Gray, SILTSTONE, thinly bedded, slightly weathered, soft	2.6	7	NX	76.0-81.0		96	88		
508.47	81.0	Gray, SANDSTONE, very fine grained, slightly weathered, medium hard	3.2								
503.47	86.0	Gray and reddish brown, SILTY CLAYSTONE, slickensided surfaces (5°-20°), moderately to highly weathered, very soft	5.0	8	NX	81.0-86.0		88	68		
		BORING COMPLETED @ 86.0'									

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25	ft. ▽
At Completion	13.4	ft. ▼
After	24 Hrs.	22.1 ft. ▼
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/7/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-8
Project	Blennerhassett Bridge	Date Started	11/29/2001
Boring Location	Station 2140+13 Offset 88.0 ~~Lt.~~ RT.	Date Completed	11/29/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
584.30	0.0									
583.80	0.5	0.5 TOPSOIL								
		Brown, SILTY CLAY, trace organics (roots), moist, stiff	1	SS	0.0-1.5	2-2-3 (5)	67			
			2	SS	5.0-6.5	5-10-21 (31)	87			
		9.5								
574.30	10.0									
		Brown, fine to coarse SAND, trace gravel, saturated, loose - medium dense	3	SS	10.0-11.5	4-4-4 (8)	87			
			4	SS	15.0-16.5	4-4-8 (12)	87			
			5	SS	20.0-21.5	6-6-6 (12)	100			
		25.0								
			6	SS	25.0-26.5	8-8-8 (16)	100			
			7	SS	30.0-31.5	10-10-12 (22)	100			
549.30	35.0									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-8
Project	Blennerhassett Bridge	Date Started	11/29/2001
Boring Location	Station 2140+13 Offset 88.0 Lt. RT.	Date Completed	11/29/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
548.80	35.5	0.5 Gray, fine SANDSTONE, thinly bedded, moderately weathered, medium hard	1	NX	35.0-35.5		100	0	3	
		Mottled reddish brown to gray to reddish brown, SILTY CLAYSTONE, thick bedded, highly to completely weathered, color change to reddish brown at 39.6', slickensided surfaces 20°-45° from horizontal (spaced 0.2'-0.6' apart), extremely soft - soft	2	NX	35.5-40.5		96	60	0-1	
		12.9 RQD 0%	3	NX	40.5-45.5		100	30	0-1	
535.90	48.4		4	NX	45.5-50.5		96	66	0-3	
		Gray, fine to medium grained SANDSTONE, limey ????, medium bedded, slightly weathered, vertical fracture at 61.2' to 61.5', medium hard	5	NX	50.5-55.5		98	98	3	
		23.0	6	NX	55.5-60.5		100	68	3	
			7	NX	60.5-65.5		100	100	3	
			8	NX	65.5-70.5		100	92	3	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate		ft.
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-8
Project	Blennerhassett Bridge	Date Started	11/29/2001
Boring Location	Station 2140+13 Offset 88.0 Lt. RT.	Date Completed	11/29/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
512.90	71.4			9	NX	70.5-75.5		96	84	2-3	
		Gray, SILTSTONE, thinly bedded, slightly weathered, soft	2.7								
510.20	74.1										
508.80	75.5	Gray, SANDSTONE, very fine grained, slightly weathered, medium hard	1.4								
		BORING COMPLETED @ 75.5'									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate ____ ft.
At Completion ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-9
Project	Blennerhassett Bridge	Date Started	12/5/2001
Boring Location	Station 2139+50 Offset 55.0 Lt.	Date Completed	12/5/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
588.19	0.0									
587.79	0.4	0.4 TOPSOIL	1	SS	0.0-1.5	2-2-3 (5)	100			
		Brown, SILTY CLAY, moist, medium stiff								
		9.6	2	SS	5.0-6.5	5-4-3 (7)	87			
578.19	10.0									
		Brown, CLAYEY SAND, moist, loose	3	SS	10.0-11.5	7-5-4 (9)	100			
		5.0								
573.19	15.0									
		Brown, SAND, medium grained, some gravel, wet - saturated, loose - dense	4	SS	15.0-16.5	3-4-3 (7)	100			
			5	SS	20.0-21.5	5-8-7 (15)	93			
			6	SS	25.0-26.5	4-6-11 (17)	100			
			7	SS	30.0-31.5	10-6-6 (12)	67			
		34.5								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	24	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/7/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-9
Project	Blennerhassett Bridge	Date Started	12/5/2001
Boring Location	Station 2139+50 Offset 55.0 Lt.	Date Completed	12/5/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium grained, some gravel, wet - saturated, loose - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	8-6-4 (10)	100			
			9	SS	40.0-41.5	8-6-6 (12)	60			
			10	SS	45.0-46.5	12-10-11 (21)	40			
538.69	49.5									
537.99	50.2	0.7 Reddish brown, SILTY CLAYSTONE, highly weathered, extremely soft	11	SS	49.5-49.5	50/0.0	0	80	0-3	
			1	NX	49.5-51.0		100			
		Gray, SANDSTONE, fine to medium grained, limey inclusions from 50.2' to 51.0', slightly weathered, slightly micaceous, medium hard	2	NX	51.0-56.0		100	94	3	
			3	NX	56.0-61.0		94	78	3	
		23.6	4	NX	61.0-66.0		100	100	3	
			5	NX	66.0-71.0		100	94	3	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	24	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/7/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-9
Project	Blennerhassett Bridge	Date Started	12/5/2001
Boring Location	Station 2139+50 Offset 55.0 Lt.	Date Completed	12/5/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SANDSTONE, fine to medium grained, limey inclusions from 50.2' to 51.0', slightly weathered, slightly micaceous, medium hard ***(LAYER CONTINUED DESCRIPTION REPEATED)***	6	NX	71.0-76.0		98	78	3-2	
514.39	73.8									
		2.2 Gray, SILTSTONE, thinly bedded, slightly weathered, soft								
512.19	76.0									
		BORING COMPLETED @ 76.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	24	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/7/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-10
Project	Blennerhassett Bridge	Date Started	11/28/2001
Boring Location	Station 2140+13 Offset 88.0 Lt.	Date Completed	11/28/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
587.42	0.0									
		TOPSOIL	1	SS	0.0-1.5	2-2-3 (5)	100			
585.92	1.5	1.5								
		Brown, SILTY CLAY, some gravel, trace organics (roots), moist, stiff - very stiff								
			2	SS	5.0-6.5	5-8-10 (18)	100			
		8.5								
577.42	10.0									
		Brown, fine to coarse SAND, trace gravel, moist - wet, loose, saturated below 20.0'	3	SS	10.0-11.5	3-5-2 (7)	73			
			4	SS	15.0-16.5	3-3-5 (8)	87			
			5	SS	20.0-21.5	5-5-6 (11)	100			
		24.5								
			6	SS	25.0-26.5	6-8-12 (20)	100			
			7	SS	30.0-31.5	9-13-15 (28)	100			
552.92	34.5									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	20	ft. ▽
At Completion	14.4	ft. ▼
After	24 Hrs. 15.7	ft. ▼
Water used in Drilling	34.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-10
Project	Blennerhassett Bridge	Date Started	11/28/2001
Boring Location	Station 2140+13 Offset 88.0 Lt.	Date Completed	11/28/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
552.12	35.3	0.8 Gray, SANDSTONE, fine grained, slightly weathered, medium hard	8	SS	34.5-34.5	50/0.0	0	0	3	
			1	NX	34.5-35.0		100	40	0-1	
		Gray and reddish brown, SILTY CLAYSTONE, slickensided (20°-45°), also contains many low angle (10-???) FRACTURES, HIGHLY WEATHERED, extremely soft - very soft	2	NX	35.0-40.0		100			
		13.1	3	NX	40.0-45.0		100	78	0-1	
			4	NX	45.0-50.0		100	70	0-3	
539.02	48.4	Gray, SANDSTONE, fine grained, slightly micaceous, slightly weathered, medium hard	5	NX	50.0-55.0		100	94	3	
			6	NX	55.0-60.0		94	60	3	
		Clay interbeds								
		23.0 Clay interbeds	7	NX	60.0-65.0		100	100	3	
			8	NX	65.0-70.0		100	94	3	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	20	ft. ▽
At Completion	14.4	ft. ▼
After	24 Hrs. 15.7	ft. ▼
Water used In Drilling	34.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	A-10
Project	Blennerhassett Bridge	Date Started	11/28/2001
Boring Location	Station 2140+13 Offset 88.0 Lt.	Date Completed	11/28/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
516.02	71.4	Gray, SANDSTONE, fine grained, slightly micaceous, slightly weathered, medium hard *(LAYER CONTINUED DESCRIPTION, REPEATED)*	9	NX	70.0-75.0		100	80	3-2	
514.82	72.6	1.2 Gray, SILTSTONE, thinly bedded, slightly weathered, soft								
513.42	74.0	1.4 Gray, SILTY SHALE, slickensided surfaces (horizon), slightly weathered, soft								
510.62	76.8	2.8 Gray, SANDSTONE, very fine grained, slightly weathered, medium hard	10	NX	75.0-80.0		94	62	3-1	
505.22	82.2	5.4 Gray to reddish brown, SILTY CLAYSTONE, slickensided surfaces (10°-20°), medium to highly weathered, very soft	11	NX	80.0-85.0		100	26	1-3	
502.42	85.0	2.8 Gray, SANDSTONE, fine grained, limey inclusions, highly fractured 82.2' to 83.9', slightly to moderately weathered, medium hard								
		BORING COMPLETED @ 45.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	20	ft. ▽
At Completion	14.4	ft. ▼
After	24 Hrs. 15.7	ft. ▼
Water used in Drilling	34.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-1
Project	Blennerhassett Bridge	Date Started	11/15/1999
Boring Location	Station 2103+63 Offset 2.5 Lt.	Date Completed	11/16/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
619.70	0.0	Brown, SANDY CLAY, trace silt, some rock fragments (angular gravel, sandstone), trace organics (roots), moist, medium stiff	1	SS	0.0-1.5	5-5-5 (10)	47			
		5.0	1	ST	2.0-4.0		70			
614.70	5.0	Brown, SANDY CLAY, moist, medium stiff - soft	2	SS	5.0-6.5	3-3-3 (6)	73			
		5.0								
609.70	10.0	Brown, SAND, coarse grained, and rock fragments (rounded gravel), medium grained past 15.0', moist - saturated, loose - very dense	3	SS	10.0-11.5	4-6-6 (12)	47			
			4	SS	15.0-16.5	12-24-25 (49)	67			
			5	SS	20.0-21.5	8-8-14 (22)	33			
			6	SS	25.0-26.5	20-36-36 (72)	80			
			7	SS	30.0-31.3	35-50-50/0.3	108			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS/ST

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	37.0	ft. ▽
At Completion	27.5	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	79.2	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-1
Project	Blennerhassett Bridge	Date Started	11/15/1999
Boring Location	Station 2103+63 Offset 2.5 Lt.	Date Completed	11/16/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, coarse grained, and rock fragments (rounded gravel), medium grained past 15.0', moist - saturated, loose - very dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	10-8-12 (20)	33			
			9	SS	40.0-41.5	8-14-14 (28)	47			
	69.0		10	SS	45.0-46.5	5-5-5 (10)	100			
			11	SS	50.0-51.5	3-4-6 (10)	100			
			12	SS	55.0-56.5	5-3-5 (8)	100			
			13	SS	60.0-61.5	16-16-20 (36)	100			
			14	SS	65.0-66.5	44-39-39 (78)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	37.0	ft. ▽
At Completion	27.5	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	79.2	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-1
Project	Blennerhassett Bridge	Date Started	11/15/1999
Boring Location	Station 2103+63 Offset 2.5 Lt.	Date Completed	11/16/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, coarse grained, and rock fragments (rounded gravel), medium grained past 15.0', moist - saturated, loose - very dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	15	SS	70.0-71.5	32-32-50 (82)	100			
			16	SS	75.0-76.5	22-22-24 (46)	100			
540.70	79.0									
		2.7 Gray and reddish brown, SILTY CLAYSTONE, sandy clay interbed from 79.2' to 79.5', slickensided surfaces, highly to completely weathered, soft - very soft	17	SS	79.0-79.2	50/0.2	100	0	1-2	
538.00	81.7		1	NX	79.2-81.5		43			
		4.3 Gray, SILTSTONE, with interbedded reddish brown silty claystone, moderately weathered, soft - medium hard	2	NX	81.5-86.0		100	78	2-3	
533.70	86.0									
		2.4 Gray, SANDSTONE, fine grained, few very thin clay interbeds, vertical joint from 86.0' to 87.5', moderately weathered, hard	3	NX	86.0-89.5		100	49	3-4	
531.30	88.4									
		1.1 Gray, SILTSTONE, moderately weathered, medium hard								
530.20	89.5									
		BORING COMPLETED @ 89.5'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	37.0	ft. ▽
At Completion	27.5	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	79.2	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-2
Project	Blennerhassett Bridge	Date Started	11/17/1999
Boring Location	Station 2104+63 Offset 4.0 Lt.	Date Completed	11/17/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
613.00	0.0	Brown, SANDY CLAY, trace organics (roots), moist, soft - medium stiff	1	SS	1.0-1.5	2-4-5 (9)	300			
608.00	5.0	Brown, SAND, medium grained, and rock fragments (gravel), moist - saturated, medium dense - dense	2	SS	5.0-6.5	11-15-14 (29)	67			
			3	SS	10.0-11.5	6-7-10 (17)	73			
			4	SS	15.0-16.5	2-6-5 (11)	73			
			5	SS	20.0-21.5	10-14-25 (39)	67			
			6	SS	25.0-26.5	1-9-9 (18)	73			
			7	SS	30.0-31.5	3-4-7 (11)	73			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	31.0	ft. ▽
At Completion	16.2	ft. ▼
After	24 Hrs.	23.7 ft. ▼
Water used in Drilling		74.6 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-2
Project	Blennerhassett Bridge	Date Started	11/17/1999
Boring Location	Station 2104+63 Offset 4.0 Lt.	Date Completed	11/17/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium grained, and rock fragments (gravel), moist - saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	8-12-14 (26)	73			
	69.5		9	SS	40.0-41.5	10-11-12 (23)	100			
			10	SS	45.0-46.5	10-12-14 (26)	100			
			11	SS	50.0-51.5	18-16-18 (34)	100			
			12	SS	55.0-56.5	18-16-18 (34)	100			
			13	SS	60.0-61.5	17-18-26 (44)	100			
			14	SS	65.0-66.5	32-40-40 (80)	100			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	31.0	ft.	▽
At Completion	16.2	ft.	▼
After	24 Hrs.	23.7 ft.	▼
Water used in Drilling	74.6	ft.	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-2
Project	Biennerhassett Bridge	Date Started	11/17/1999
Boring Location	Station 2104+63 Offset 4.0 Lt.	Date Completed	11/17/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium grained, and rock fragments (gravel), moist - saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*		15	SS	70.0-71.5	10-12-14 (26)	100			
538.50	74.5										
		Gray, SILTSTONE, with interbedded reddish brown and gray silty claystone, moderately weathered, soft - medium hard	3.4	16	SS	74.5-74.6	50/0.1	100	38	2-3	
				1	NX	74.6-77.5		86			
535.10	77.9										
		Gray, SANDSTONE, fine grained, limey inclusions, faintly weathered, medium hard - hard	3.0	2	NX	77.5-82.5		98	66	3-4	
532.10	80.9										
		Gray, SILTSTONE, few clay laminations, slightly to moderately weathered, soft - medium hard	2.5								
529.60	83.4			3	NX	82.5-85.0		100	88	2-4	
		Gray, SANDSTONE, fine grained, faintly weathered, medium hard - hard	1.6								
528.00	85.0										
		BORING COMPLETED @ 85.0'									

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	31.0	ft. ▽
At Completion	16.2	ft. ▼
After	24 Hrs. 23.7	ft. ▼
Water used In Drilling	74.6	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-3
Project	Blennerhassett Bridge	Date Started	11/18/1999
Boring Location	Station 2105+73 Offset 0.0 CL.	Date Completed	11/19/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
600.50	0.0									
600.00	0.5	0.5 Gravel and coal (FILL)								
		Brown and gray mottled, LEAN CLAY, some silt, same sand, trace organics (roots), moist, medium stiff	1	SS	1.0-0.2	50/0.2	-25			
		9.5	2	SS	5.0-6.5	2-3	100			
590.50	10.0									
		Gray, LEAN CLAY, some silt, saturated at 20.0', moist - saturated, soft - medium stiff	3	SS	10.0-11.5	2-2-2 (4)	100			
			4	SS	15.0-16.5	1-1-1 (2)	100			
		15.0	5	SS	20.0-21.5	1-3-5 (8)	100			
575.50	25.0									
		Brown, SAND, medium to coarse grained, wet - saturated, medium dense - dense	6	SS	25.0-26.5	4-5-8 (13)	100			
			7	SS	30.0-31.5	4-4-4 (8)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
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Water Level Observations

Immediate	20.0	ft. ▽
At Completion	16.0	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	58.1	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-3
Project	Blennerhassett Bridge	Date Started	11/18/1999
Boring Location	Station 2105+73 Offset 0.0 CL.	Date Completed	11/19/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium to coarse grained, wet - saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	9-10-11 (21)	100			
			9	SS	40.0-41.5	12-12-14 (26)	100			
			10	SS	45.0-46.5	15-23-24 (47)	100			
			11	SS	50.0-51.5	16-24-25 (49)	100			
542.50	58.0		12	SS	55.0-55.3	50/0.3	100			
		Reddish brown, SILTY CLAYSTONE, completely weathered, extremely soft	13	SS	58.0-58.1	50/0.1	0	0	0	
			1	NX	58.1-62.1		38			
538.10	62.4	Gray, SANDSTONE, fine grained, limey, few clay laminations, slightly to moderately weathered, medium hard - hard	2	NX	62.1-67.1		76	20	3-4	
			3	NX	67.1-72.1		100	54	2-4	
531.10	69.4									

33.0

4.4

7.0

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Observations

Immediate	20.0	ft. ▽
At Completion	16.0	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	58.1	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-3
Project	Blennerhassett Bridge	Date Started	11/18/1999
Boring Location	Station 2105+73 Offset 0.0 CL.	Date Completed	11/19/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
528.40	72.1	2.9 Gray, SILTSTONE, some clay laminations, moderately weathered, soft - medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
525.70	74.8	2.7 Gray, SANDSTONE, fine grained, faintly weathered, medium hard - hard	4	NX	72.1-74.8		100	100	3-4	
		BORING COMPLETED @ 74.8'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Obserations

Immediate	20.0	ft. ▽
At Completion	16.0	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	58.1	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-4
Project	Blennerhassett Bridge	Date Started	11/18/1999
Boring Location	Station 2106+59 Offset 0.0 CL.	Date Completed	11/18/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
600.00	0.0	Brown, LEAN CLAY, some silt, moist, stiff	1	SS	0.0-1.5	2-6-7 (13)	47			
	5.0									
595.00	5.0	Brown and gray mottled, LEAN CLAY, some silt, moist - wet, soft	2	SS	5.0-6.5	3-3-3 (6)	80			
	10.0		3	SS	10.0-11.5	1-1-1 (2)	100			
585.00 ▽	15.0	Brown, LEAN CLAY, some silt, wet - saturated, soft - medium stiff	4	SS	15.0-16.5	1-1-2 (3)	100			
			5	SS	20.0-21.5	2-2-3 (5)	100			
	25.0		6	SS	25.0-26.5	2-3-4 (7)	100			
			7	SS	30.0-31.5	1-1-2 (3)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	15.0	ft. ▽
At Completion		ft.
After	24 Hrs. 7.6	ft. ▼
Water used in Drilling	59.3	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-4
Project	Blennerhassett Bridge	Date Started	11/18/1999
Boring Location	Station 2106+59 Offset 0.0 CL.	Date Completed	11/18/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, LEAN CLAY, some silt, wet - saturated, soft - medium stiff *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	2-3-5 (8)	100			
560.00	40.0									
		Gray, SAND, fine grained, wet - saturated, loose - dense	9	SS	40.0-41.5	4-10-14 (24)	100			
			10	SS	45.0-46.5	1-2-2 (4)	100			
		16.0								
			11	SS	50.0-51.5	12-22-25 (47)	100			
544.00	56.0		12	SS	55.0-56.4	44-50-50/0.4	100			
		Gray, SILTSTONE, with interbedded gray and red silty claystone, high angle slickensided surfaces, fine grained sandstone interbeds from 63.1' to 63.5', 64.6' to 65.7', and 68.9' to 69.5', vertical joint from 65.1' to 65.7', moderately to highly weathered, soft - medium hard	13	SS	59.2-59.3	50/0.1	100	34	2	
			1	NX	59.3-62.5		84			
		13.5	2	NX	62.5-67.5		94	64	2-4	
			3	NX	67.5-69.5		100	65	2-3	
530.50	69.5									
		BORING COMPLETED @ 69.5'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: 15.0 ft. ▽
At Completion: ft.
After: 24 Hrs. 7.6 ft. ▼
Water used in Drilling: 59.3 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-5
Project	Blennerhassett Bridge	Date Started	11/18/1999
Boring Location	Station 2107+63 Offset 0.0 CL.	Date Completed	11/18/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
600.15	0.0									
599.25	0.9	0.9 CONCRETE								
		Brown and gray, LEAN CLAY, some silt, moist - wet, soft - stiff	1	SS	0.9-2.4	5-5-5 (10)	73			
			2	SS	5.0-6.5	10-10-11 (21)	100			
			3	SS	10.0-11.5	2-2-2 (4)	80			
		25.4	4	SS	15.0-16.5	1-2-2 (4)	100			
			5	SS	20.0-21.5	2-2-3 (5)	100			
573.85	26.3		6	SS	25.0-26.5	2-2-3 (5)	100			
		Brown, SAND, fine grained, some clay, some rock fragments (gravel), saturated, loose - dense	7	SS	30.0-31.5	3-3-4 (7)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	26.0	ft. ▽
At Completion	19.9	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	59.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-5
Project	Blennerhassett Bridge	Date Started	11/18/1999
Boring Location	Station 2107+63 Offset 0.0 CL.	Date Completed	11/18/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, fine grained, some clay, some rock fragments (gravel), saturated, loose - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	8-8-9 (17)	100			
			9	SS	40.0-41.5	21-12-12 (24)	73			
			10	SS	45.0-46.5	26-22-21 (43)	80			
			11	SS	50.0-51.5	20-26-24 (50)	73			
544.15	56.0		12	SS	55.0-56.5	29-27-24 (51)	73			
		29.7								
		Brown, SILTY CLAY, saturated, extremely soft								
540.65	59.5	3.5								
		Gray, SILTSTONE, with interbedded gray and reddish brown silty claystone, high angle slickensided surfaces, highly weathered, soft - medium hard	13	SS	59.5-59.5	50/0.0	0	0	NA	
538.55	61.6	2.1	1	NX	59.5-65.0		95	56	2-4	
		Gray, SANDSTONE, fine grained, limey, clayey siltstone interbeds, fainty weathered, medium hard - hard								
			2	NX	65.0-70.0		100	94	3-4	
530.15	70.0	8.4								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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Charleston WV 25301
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	26.0	ft. ▽
At Completion	19.9	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	59.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-5
Project	Blennerhassett Bridge	Date Started	11/18/1999
Boring Location	Station 2107+63 Offset 0.0 CL.	Date Completed	11/18/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		BORING COMPLETED @ 70.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	26.0	ft. ▽
At Completion	19.9	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	59.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-6
Project	Blennerhassett Bridge	Date Started	11/17/1999
Boring Location	Station 2108+55 Offset 0.0 CL.	Date Completed	11/17/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
601.00	0.0									
600.00	1.0	1.0 CONCRETE								
		Brown, SILTY CLAY, trace organics (roots), moist, stiff	1	ST	1.0-2.5	4-6-7 (13)	100			
			1	ST	3.0-5.0		65			
		9.0	2	SS	5.0-6.5	4-4-5 (9)	100			
591.00	10.0									
		Brown and gray mottled, LEAN CLAY, some silt, moist - wet, medium stiff	3	SS	10.0-11.5	4-5-5 (10)	100			
		10.0	4	SS	15.0-16.5	4-4-4 (8)	100			
581.00	20.0									
		Brown, LEAN CLAY, some silt, wet - saturated, soft	5	SS	20.0-21.5	2-2-2 (4)	100			
		6.0	6	SS	25.0-26.5	1-1-1 (2)	100			
575.00	26.0									
		Brown, SAND, fine grained, saturated, medium dense	7	SS	30.0-31.5	10-10-11 (21)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	22.0	ft. ▽
At Completion	10.2	ft. ▼
After	24 Hrs.	18.7 ft. ▼
Water used in Drilling	64.0	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-6
Project	Blennerhassett Bridge	Date Started	11/17/1999
Boring Location	Station 2108+55 Offset 0.0 CL.	Date Completed	11/17/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, fine grained, saturated, medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	12-11-12 (23)	100			
			9	SS	40.0-41.5	10-11-13 (24)	87			
		38.0	10	SS	45.0-46.5	7-9-9 (18)	87			
			11	SS	50.0-51.5	12-12-12 (24)	100			
			12	SS	55.0-56.5	11-11-13 (24)	80			
			13	SS	60.0-61.5	9-10-12 (22)	80			
537.00	64.0									
536.30	64.7	0.7 Gray, SANDSTONE, fine grained, limey inclusions, faintly weathered, medium hard - hard	14	SS	64.0-64.0	50/0.0	0	0	N/A	
		4.0 Gray, SILTSTONE, some clay laminations, moderatley weathered, soft - medium hard	1	NX	64.0-67.0		80	73	2-4	
532.30	68.7		2	NX	67.0-72.0		100	68	2-4	
		Gray, SANDSTONE, fine grained, cross-bedded, faintly weathered, medium hard								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	22.0	ft. ▽
At Completion	10.2	ft. ▼
After	24 Hrs. 18.7	ft. ▼
Water used in Drilling	64.0	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/26/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-6
Project	Blennerhassett Bridge	Date Started	11/17/1999
Boring Location	Station 2108+55 Offset 0.0 CL.	Date Completed	11/17/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
530.10	70.9	2.2 - hard								
		2.0 Gray, SILTSTONE, some clay laminations, moderately weathered, soft								
528.10	72.9		3	NX	72.0-74.0		100	100	2-4	
527.00	74.0	1.1 Gray, SANDSTONE, fine grained, cross-bedded, faintly weathered, medium hard - hard								
		BORING COMPLETED @ 74.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

H.C. NUTTING COMPANY
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	22.0	ft. ▽
At Completion	10.2	ft. ▼
After	24 Hrs. 18.7	ft. ▼
Water used in Drilling	64.0	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-7
Project	Blennerhassett Bridge	Date Started	11/16/1999
Boring Location	Station 2109+63 Offset 3.0 Lt.	Date Completed	11/16/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 33.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		14.4								
567.65	14.4	Gray, SILTY SAND, some clay, saturated, medium stiff	1	SS	14.4-15.9	2-2-3 (5)	67			
		3.0	2	SS	16.4-17.9	2-3-3 (6)	60			
564.65	17.4	Brown, SAND, medium grained, some gravel, trace silt, trace clay, saturated, loose								
		4.5	3	SS	21.4-22.9	7-8-8 (16)	60			
560.15	21.9	Brown and gray, SAND, medium grained, some gravel, some silt, trace clay, saturated, loose - medium dense								
			4	SS	26.4-27.9	5-5-3 (8)	33			
		15.7	5	SS	31.4-32.9	5-9-13 (22)	7			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	37.85	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-7
Project	Blennerhassett Bridge	Date Started	11/16/1999
Boring Location	Station 2109+63 Offset 3.0 Lt.	Date Completed	11/16/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 33.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown and gray, SAND, medium grained, some gravel, some silt, trace clay, saturated, loose - medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*								
544.45	37.6		6	SS	36.4-37.9	7-17-50/0.5	100			
		Red and gray, SILTY CLAYSTONE, limey inclusions, highly to completely weathered, extremely soft	1	NX	37.9-42.9		76	54	0-2	
542.15	39.9	2.3								
		Red and gray, SILTY CLAYSTONE, limey inclusions, slickensided surfaces, slightly to faintly weathered, very soft - soft	2	NX	42.9-47.9		100	100	1-2	
534.15	47.9	8.0								
		BORING COMPLETED @ 47.9'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	37.85	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-8
Project	Blennerhassett Bridge	Date Started	11/16/1999
Boring Location	Station 2110+63 Offset 3.0 Rt.	Date Completed	11/16/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 29.4 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		22.4								
559.65	22.4									
		Brown, GRAVEL, and sand, saturated, medium dense	1	SS	22.4-23.9	7-8-4 (12)	7			
		3.5								
556.15	25.9									
		Brown, SAND, medium to coarse grained, and gravel, trace silt, saturated, medium dense	2	SS	25.9-27.4	5-5-8 (13)	47			
		5.0								
551.15	30.9									
		Brown, SAND, medium to coarse grained, some gravel, trace silt, saturated, medium dense - dense	3	SS	30.9-32.4	2-5-5 (10)	40			
		6.1								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

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912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	41.75	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-8
Project	Blennerhassett Bridge	Date Started	11/16/1999
Boring Location	Station 2110+63 Offset 3.0 Rt.	Date Completed	11/16/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 29.4 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium to coarse grained, some gravel, trace silt, saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*								
545.05	37.0		4	SS	35.9-37.4	10-15-18 (33)	80			
		Brown, SANDY SILT, trace clay, moist, hard								
		4.4								
540.65	41.4		5	SS	40.9-41.8	32-50/0.4	100			
		Red and gray, SILTY CLAYSTONE, slickensided surfaces, limey inclusions, slightly to faintly weathered, very soft - soft	1	NX	41.8-46.8		84	68	1-2	
		7.0								
533.65	48.4		2	NX	46.8-51.8		100	96	1-2	
		Gray, SILTSTONE, limey inclusions, medium bedded, faintly weathered, soft								
		3.4								
530.25	51.8									
		BORING COMPLETED @ 51.8'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	41.75	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-9
Project	Blennerhassett Bridge	Date Started	11/16/1999
Boring Location	Station 2117+13 Offset 0.0 CL.	Date Completed	11/16/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 32.9 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		25.1								
556.95	25.1									
		2.5 Grayish brown, SAND, medium grained, some gravel, trace silt, trace clay, saturated, medium dense	1	SS	25.1-26.6	5-5-9 (14)	53			
554.45	27.6		2	SS	27.1-28.6	2-9-12 (21)	53			
		4.5 Grayish brown, SAND, fine to medium grained, some silt, trace gravel, trace clay, saturated, medium dense								
549.95	32.1									
		Brown, SAND, medium to coarse grained, some gravel, trace silt, saturated, medium dense	3	SS	32.1-33.6	22-6-5 (11)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	47.95	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-9
Project	Blennerhassett Bridge	Date Started	11/16/1999
Boring Location	Station 2117+13 Offset 0.0 CL.	Date Completed	11/16/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 32.9 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium to coarse grained, some gravel, trace silt, saturated, medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*								
		15.0	4	SS	37.1-38.6	2-7-7 (14)	47			
			5	SS	42.1-43.6	1-12-13 (25)	7			
534.95	47.1									
		Red and gray, SILTY CLAYSTONE, slickensided surfaces, limey inclusions, moderately weathered, very soft	6	SS	47.1-48.0	20-50/0.4	100			
		3.5	1	NX	48.0-53.0		94	72	1-2	
531.45	50.6									
		Gray, CLAYEY SILTSTONE, limey inclusions, moderately to slightly weathered, soft								
		2.0								
529.45	52.6									
		Gray, SANDSTONE, fine grained, thinly bedded, limey, slightly to faintly weathered, medium hard	2	NX	53.0-58.0		100	88	3-2	
		2.2								
527.25	54.8									
		Gray, SILTSTONE, limey inclusions, faintly weathered, medium hard								
		3.2								
524.05	58.0									
		BORING COMPLETED @ 58.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	47.95	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-10
Project	Blennerhassett Bridge	Date Started	11/15/1999
Boring Location	Station 2118+13 Offset 0.0 CL.	Date Completed	11/15/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 40.8 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		15.0								
567.05	15.0	Dark brown, SANDY SILT, trace gravle, trace clay, trace organics (shells), saturated, medium stiff	1	SS	15.0-16.5	1-2-3 (5)	7			
		6.0								
561.05	21.0	Brown, SAND, medium grained, and gravel, some silt, trace clay, saturated, medium dense	2	SS	20.0-31.5	14-13-9 (22)	13			
		4.0								
557.05	25.0	Dark gray, SANDY SILT, trace gravel, trace clay, saturated, medium stiff	3	SS	25.0-26.5	4-5-6 (11)	47			
		5.0								
552.05	30.0	Brown, SAND, medium grained, trace gravel, trace silt, trace clay, saturated, medium dense	4	SS	30.0-31.5	7-9-11 (20)	73			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

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Charleston WV 25301
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	45.75	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-10
Project	Blennerhassett Bridge	Date Started	11/15/1999
Boring Location	Station 2118+13 Offset 0.0 CL.	Date Completed	11/15/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 40.8 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium grained, trace gravel, trace silt, trace clay, saturated, medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	5	SS	35.0-36.5	9-5-7 (12)	100			
	15.0		6	SS	40.0-41.5	1-7-12 (19)	100			
537.05	45.0									
		Red and gray, SILTY CLAYSTONE, limey inclusions, moderately to slightly weathered, soft - very soft	7	SS	45.0-45.8	22-50/0.3	163			
	5.7		1	NX	45.8-50.8		88	72	1-3	
531.35	50.7									
		Gray, SANDSTONE, fine to medium grained, limey inclusions, medium bedded, faintly weathered, medium hard	2	NX	50.8-55.8		100	100	3	
	5.1									
526.25	55.8									
		BORING COMPLETED @ 55.8'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A		ft.
At Completion	N/A		ft.
After	24	Hrs. N/A	ft.
Water used in Drilling	45.75		ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-11
Project	Blennerhassett Bridge	Date Started	11/12/1999
Boring Location	Station 2131+63 Offset 3.0 Lt.	Date Completed	11/12/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 38.9 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		17.3								
564.75	17.3									
563.75	18.3	1.0 Gray, SILT, some sand, trace clay, trace gravel, saturated, medium stiff	1	SS	17.3-18.8	2-8-11 (19)	67			
561.75	20.3	2.0 Brown, SAND, medium to coarse grained, some gravel, trace silt, saturated, medium dense	2	SS	20.3-21.8	17-26-41 (67)	100			
		5.0 Dark brown, SAND, medium to coarse grained, some gravel, trace silt, saturated, very dense								
556.75	25.3		3	SS	25.3-26.8	11-24-27 (51)	67			
		10.0 Brown, SAND, medium to coarse grained, some gravel, trace silt, trace clay, saturated, dense	4	SS	30.3-31.8	13-13-16 (29)	67			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	46.15	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	**B-11**
Project	Blennerhassett Bridge	Date Started	11/12/1999
Boring Location	Station 2131+63 Offset 3.0 Lt.	Date Completed	11/12/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 38.9 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
546.75	35.3	Brown, SAND, fine to coarse grained, some gravel, trace silt, trace clay, saturated, loose	5	SS	35.3-36.8	10-5-5 (10)	33			
		5.0								
541.75	40.3									
		Brown, SAND, coarse grained, and gravel, saturated, very loose	6	SS	40.3-41.8	0-2-4 (6)	27			
539.75	42.3	2.0								
		Brown, GRAVEL, some coarse sand, trace silt, dry, dense - very dense								
		3.9								
535.85	46.2		7	SS	45.3-46.2	39-50/0.4	100			
		Gray, SANDSTONE, fine grained, limey inclusions, thinly bedded, slightly to faintly weathered, medium hard	1	NX	46.2-51.2		99	52	3	
		6.7								
529.15	52.9		2	NX	51.2-56.2		101	93	1-3	
		Gray, SILTY CLAYSTONE, limey inclusions, moderately to slightly weathered, very soft								
527.65	54.4	1.5								
		Gray, SANDSTONE, fine grained, limey inclusions, faintly weathered, medium hard								
525.85	56.2	1.8								
		BORING COMPLETED @ 56.2'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	46.15	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-12
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2132+63 Offset 1.5 Lt.	Date Completed	11/12/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 30.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		24.1								
557.95	24.1									
		1.5 Brown, SANDY SILT, some clay, little gravel, saturated, soft	1	SS	24.1-24.6	1-4-8 (12)	120			
556.45	25.6	Brown, SAND, medium to coarse grained, some gravel, trace silt, saturated, medium dense								
		8.5	2	SS	29.1-30.6	7-11-15 (26)	67			
547.95	34.1		3	SS	34.1-35.6	0-0-3	13			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	44.05	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-12
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2132+63 Offset 1.5 Lt.	Date Completed	11/12/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 30.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium to coarse grained, some gravel, trace silt, saturated, loose *(LAYER CONTINUED DESCRIPTION REPEATED)*				(3)				
		9.0	4	SS	39.1-40.6	2-4-5 (9)	53			
538.95	43.1									
537.95	44.1	1.0 Gray, SAND and GRAVEL, some silt, trace clay, saturated, very dense	5	SS	43.7-44.1	50/0.4	100			
		Gray, SANDSTONE, limey inclusions, thinly bedded, iron stains on bedding planes and joints, vertical joints at 44.1' to 44.8', slightly weathered, soft - medium hard	1	NX	44.1-49.1		100	40	2-3	
		6.6	2	NX	49.1-54.1		98	64	1-3	
531.35	50.7									
529.95	52.1	1.4 Gray, SILTY CLAYSTONE, limey, moderately to slightly weathered, very soft								
527.95	54.1	2.0 Gray, SANDSTONE, fine grained, thinly bedded, limey inclusions, slightly weathered, medium hard								
		BORING COMPLETED @ 54.1'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	44.05	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-13
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2137+17 Offset 1.2 Rt.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 30.3 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		31.1								
550.95	31.1	Brown, SANDY SILT, some gravel, some clay, saturated, soft	1	SS	31.1-32.6	3-2-1 (3)	33			
		5.0								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	51.35	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-13
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2137+17 Offset 1.2 Rt.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 30.3 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
545.95	36.1									
		Brown, SAND, medium to coarse grained, some gravel, little silt, trace clay, saturated, medium dense	2	SS	36.1-37.6	13-11-12 (23)	40			
			3	SS	41.1-42.6	3-9-13 (22)	40			
		13.0	4	SS	46.1-47.6	1-13-18 (31)	40			
532.95	49.1									
		Gray, CLAYEY SAND, and gravel, some silt, saturated, dense								
530.95	51.1	2.0	5	SS	51.1-51.4	50/.03	100			
		Gray, SANDSTONE, fine grained, limey inclusions, thinly bedded, slightly weathered, medium hard	1	NX	51.4-56.4		100	50	3	
		7.1	2	NX	56.4-61.4		100	72	1-3	
523.85	58.2									
		Gray, SILTY CLAYSTONE, slightly weathered, very soft								
522.45	59.6	1.4								
		Gray, SILTSTONE, limey inclusions, faintly weathered, soft - medium hard								
520.65	61.4	1.8								
		BORING COMPLETED @ 61.4'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	51.35	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-14
Project	Blennerhassett Bridge	Date Started	11/10/1999
Boring Location	Station 2138+13 Offset 0.0 CL.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 53.7 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0									
		WATER								
580.55	1.5	1.5								
		Gray, SANDY SILT, some clay, saturated, soft	1	SS	1.5-3.0	0-0-0 (0)	100			
579.35	2.7	1.2								
		Gray, LEAN CLAY, some silt, trace sand, saturated, soft								
577.55	4.5	1.8								
		Gray, SANDY SILT, some clay, saturated, soft	2	SS	5.0-6.5	1-1-1 (2)	100			
		5.5								
572.05	9.9									
		Brown, SAND, medium grained, some silt, trace clay, very moist - saturated, loose	3	SS	9.9-11.5	4-5-5 (10)	100			
			4	SS	15.0-16.5	2-5-6 (11)	100			
		15.0	5	SS	20.0-21.5	3-2-3 (5)	100			
557.05	25.0									
		Brown, SAND, medium to coarse grained, some gravel, trace silt, very moist, medium dense - dense	6	SS	25.0-26.5	9-10-11 (21)	100			
			7	SS	30.0-31.5	13-16-18 (34)	67			
		18.0								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	45.05	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-14
Project	Blennerhassett Bridge	Date Started	11/10/1999
Boring Location	Station 2138+13 Offset 0.0 CL.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 53.7 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium to coarse grained, some gravel, trace silt, very moist, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	11-11-20 (31)	80			
			9	SS	40.0-41.5	13-24-36 (60)	100			
539.05	43.0									
		Gray, SANDSTONE, limey inclusions, thinly bedded, slightly weathered, medium hard	10	SS	45.0-45.1	50/0.1	0	88	3	
			1	NX	45.1-50.2		100			
	12.2									
			2	NX	50.2-55.2		76	26	3	
526.85	55.2									
		BORING COMPLETED @ 55.2'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	45.05	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-15
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2139+13 Offset 0.0 CL.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
591.00	0.0	
589.50	1.5	1.5 Brown, SAND, coarse grained, some rock fragments (subangular sandstone gravel), trace organics (roots), moist - wet, loose
		Brown, SAND, coarse grained, trace rock fragments (subangular sandstone gravel), moist - wet, medium dense
		48.0

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	6-7-7 (14)	73			
1	ST	3.0-5.0		100			
2	SS	5.0-6.5	5-5-5 (10)	100			
3	SS	10.0-11.5	4-7-7 (14)	100			
4	SS	15.0-16.5	7-6-5 (11)	100			
5	SS	20.0-21.5	7-7-9 (16)	100			
6	SS	25.0-26.5	6-6-8 (14)	100			
7	SS	30.0-31.5	4-21-10 (31)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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Water Level Obserations

Immediate	25.0	ft. ▽
At Completion	27.3	ft. ▼
After	24 Hrs. 25.3	ft. ▼
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-15
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2139+13 Offset 0.0 CL.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, coarse grained, trace rock fragments (subangular sandstone gravel), moist - wet, medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	12-12-12 (24)	80			
			9	SS	40.0-41.5	8-8-14 (22)	80			
			10	SS	45.0-46.5	8-8-10 (18)	87			
541.50	49.5									
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces, completely weathered, extremely soft 2.8	11 1	SS NX	49.5-49.5 49.5-52.0	50/0.0	0 20	0 0	N/A 1	
538.70	52.3									
		Gray, SANDSTONE, fine grained, limey inclusions, clay laminations at 53.8', faintly weathered, medium hard - hard 2.5	2	NX	52.0-57.0		100	84	3	
536.20	54.8									
		Gray, SILTSTONE, some very thin sandstone interbeds, some clay laminations, faintly weathered, soft - medium hard 7.2	3	NX	57.0-62.0		96	96	2-4	
529.00	62.0									
		BORING COMPLETED @ 62.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	25.0	ft. ▽
At Completion	27.3	ft. ▼
After	24 Hrs. 25.3	ft. ▼
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-16
Project	Blennerhassett Bridge	Date Started	11/12/1999
Boring Location	Station 2140+13 Offset 0.0 CL.	Date Completed	11/12/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
586.00	0.0									
584.00	2.0	Brown, SANDY CLAY, some rock fragments (angular sandstone gravel), trace organics (roots), moist - wet, soft	1	SS	0.0-1.5	1-1-2 (3)	67			
		Brown and gray, CLAYEY SAND, some rock fragments (angular sandstone gravel), moist - wet, medium dense	2	SS	5.0-6.5	8-10-12 (22)	100			
571.00	15.0		3	SS	10.0-11.5	7-8-8 (16)	73			
		Brown, SAND, medium grained, some rock fragments (subangular sandstone gravel), moist - wet, loose - medium dense	4	SS	15.0-16.5	4-4-4 (8)	100			
			5	SS	20.0-21.5	3-2-4 (6)	100			
			6	SS	25.0-26.5	12-8-9 (17)	100			
			7	SS	30.0-31.5	9-9-11 (20)	100			
551.00	35.0									

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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Water Level Observations

Immediate	20.	ft. ▽
At Completion	18.5	ft. ▼
After	24 Hrs. 5.5	ft. ▼
Water used in Drilling	35.0	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-16
Project	Blennerhassett Bridge	Date Started	11/12/1999
Boring Location	Station 2140+13 Offset 0.0 CL.	Date Completed	11/12/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
550.10	35.9	0.9 Gray, SANDSTONE, fine grained, limey, faintly weathered, medium hard - hard	8	SS	35.0-35.0	50/0.0	0	13	1-4	
			1	NX	35.0-38.0		53			
		Gray and reddish brown, SILTY CLAYSTONE, slickensided surfaces, highly weathered, extremely soft - very soft	2	NX	38.0-43.0		100	90	0-1	
		12.1	3	NX	43.0-48.0		98	68	0-1	
538.00	48.0	BORING COMPLETED @ 48.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	20.	ft.	▽	
At Completion	18.5	ft.	▼	
After	24 Hrs.	5.5	ft.	▼
Water used in Drilling	35.0	ft.		

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-17
Project	Blennerhassett Bridge	Date Started	11/15/1999
Boring Location	Station 2141+13 Offset 0.0 CL.	Date Completed	11/15/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
587.00	0.0	Brown, LEAN CLAY, some silt, trace organics (roots), some rock fragments (subangular sandstone gravel), moist, medium stiff - stiff	1	SS	0.0-1.5	2-2-3 (5)	100			
			2	SS	5.0-6.5	7-7-7 (14)	100			
577.00 ▽	10.0									
		Brown, SAND, fine to medium grained, some clay, some rock fragments (gravel), saturated, medium dense	3	SS	10.0-11.5	8-5-5 (10)	100			
			4	SS	15.0-16.5	8-8-9 (17)	100			
567.00	20.0									
		Gray, CLAYEY SHALE, laminated, residual soil, extremely soft	5	SS	20.0-21.5	31-18-49 (67)	80			
562.30	24.7		6	SS	24.5-24.7	50/0.2	100	67	2	
		Gray, SILTSTONE, thinly bedded, limey inclusions, jointed at 28.0' to 28.5', moderately to slightly weathered, soft	1	NX	24.7-30.7		87			
			2	NX	30.7-35.7		94	86	2	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	10.0	ft. ▽
At Completion	13.7	ft. ▼
After	24 Hrs. 5.5	ft. ▼
Water used in Drilling	24.7	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-17
Project	Blennerhassett Bridge	Date Started	11/15/1999
Boring Location	Station 2141+13 Offset 0.0 CL.	Date Completed	11/15/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
551.30	35.7	BORING COMPLETED @ 35.7'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Obserations

Immediate	10.0	ft. ▽
At Completion	13.7	ft. ▼
After	24 Hrs. 5.5	ft. ▼
Water used in Drilling	24.7	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-18
Project	Blennerhassett Bridge	Date Started	11/15/1999
Boring Location	Station 2142+17.5 Offset 0.0 CL.	Date Completed	11/15/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
606.60	0.0									
		1.5 Dark brown, SILTY CLAY, some rock fragments (subangular sandstone gravel), trace organics (roots), moist, medium stiff	1	SS	0.0-1.5	3-4-7 (11)	100			
605.10	1.5	Brown, SAND, fine grained, and rock fragments (angular sandstone gravel), some clay, moist, medium dense - dense								
			2	SS	5.0-6.5	12-12-12 (24)	73			
		14.0	3	SS	10.0-11.5	19-27-32 (59)	93			
591.10	15.5		4	SS	15.0-16.0	24-100/0.5	100			
590.10	16.5	1.0 Reddish brown and gray, SILTY CLAYSTONE, highly weathered, very soft	1	NX	16.0-17.5		100	73	1-2	
		Gray, SILTSTONE, thinly bedded, some clay laminations, some thin sandstone interbeds, moderately to highly weathered, soft - medium hard	2	NX	17.5-22.5		86	42	2-3	
		11.0	3	NX	22.5-27.5		100	50	2-3	
579.10	27.5	BORING COMPLETED @ 27.5'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
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Water Level Obserations

Immediate	Dry	ft.
At Completion	4.2	ft. ▽
After	24 Hrs. 6.5	ft. ▼
Water used in Drilling	16.0	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-19
Project	Biennerhassett Bridge	Date Started	11/12/1999
Boring Location	Station 2143+13 Offset 0.0 CL.	Date Completed	11/12/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
629.00	0.0	Brown, LEAN CLAY, some sand, some rock fragments (angular sandstone gravel), trace organics (roots), moist, stiff	1	SS	0.0-1.3	2-3-50/0.3	77			
		10.0	2	SS	5.0-6.5	5-7-9 (16)	0			
619.00	10.0	Brown and gray, SILTY CLAYSTONE, some iron staining, residual soil, extremely soft	3	SS	10.0-11.5	7-8-7 (15)	33			
		5.0								
614.00	15.0	Brown, SANDSTONE, medium grained, residual soil, very soft	4	SS	15.0-16.5	6-18-20 (38)	47			
		5.0								
609.00	20.0		5	SS	20.0-20.7	50/0.2	29			
608.00	21.0	1.0 Brown, SILTY CLAYSTONE, completely weathered, very soft	1	NX	20.7-23.0		70	0	3	
607.00	22.0	1.0 Gray and brown, SANDSTONE, fine grained, limey inclusions, moderately to highly weathered, medium hard								
		3.0 Brown, SILTSTONE, sandy from 22.0' to 23.0', some clay laminations, moderately ro highly weathered, soft	2	NX	23.0-28.0		98	42	1-2	
604.00	25.0									
		2.3 Reddish brown, SILTY CLAYSTONE, slickensided suraces, highly weathered, very soft								
601.70	27.3									
		5.7 Gray and reddish brown, SILTSTONE, some clay laminations, limey, moderately to highly weathered, soft - medium hard	3	NX	28.0-33.0		96	64	2-3	
596.00	33.0									
		BORING COMPLETED @ 33.0'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	Dry	ft.
At Completion	3.7	ft. ▽
After	24 Hrs. NA	ft.
Water used in Drilling	20.7	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-20
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2144+13 Offset 0.0 CL.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
664.00	0.0	BASE STONE Reddish brown, lean clay (FILL), trace organics (roots, coal fragments), fine grained sandstone boulder at 6.0', some rock fragments (sandstone and siltstone), moist, very stiff - stiff	1	SS	0.0-1.5	9-8-14 (22)	67			
659.00	5.0	5.0								
			2	SS	5.0-6.5	10-18-7 (25)	33			
			3	SS	10.0-11.5	3-12-7 (19)	67			
			4	SS	15.0-16.5	4-7-7 (14)	67			
		39.5	5	SS	20.0-21.5	6-6-12 (18)	80			
			6	SS	25.0-26.5	5-9-13 (22)	100			
			7	SS	30.0-31.5	3-9-7 (16)	100			

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	Dry	ft.		
At Completion	11.3	ft.	▽	
After	24 Hrs.	14.7	ft.	▽
Water used in Drilling	40.1	ft.		

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-20
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2144+13 Offset 0.0 CL.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Reddish brown, lean clay (FILL), trace organics (roots, coal fragments), fine grained sandstone boulder at 6.0', some rock fragments (sandstone and siltstone), moist, very stiff - stiff *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	3-5-8 (13)	100			
624.00	40.0									
623.40	40.6	0.6 Gray, SANDSTONE, fine grained, limey, cross-bedded, slightly weathered, medium hard - hard	9	SS	40.0-40.1	50/0.1	100	0	N/A	
			1	NX	40.1-41.7		56	0	3-4	
		3.1 Brown and gray, SILTSTONE, some clay laminations, moderately to highly weathered, soft	2	NX	41.7-46.7		82	16	2-4	
620.30	43.7									
619.10	44.9	1.2 Gray, SANDSTONE, fine grained, cross-bedded, limey, slightly weathered, medium hard - hard								
		3.5 Brown and gray, SILTSTONE, some clay laminations, moderately to highly weathered, soft	3	NX	46.7-51.2		100	80	2-4	
615.60	48.4									
		2.8 Gray, SANDSTONE, fine grained, cross-bedded, faintly weathered, hard								
612.80	51.2									
		BORING COMPLETED @ 51.2'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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Water Level Observations

Immediate	Dry	ft.
At Completion	11.3	ft. ▽
After	24 Hrs. 14.7	ft. ▼
Water used in Drilling	40.1	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-21
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2134+88 Offset 3.0 Rt.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 30.2 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		30.6								
551.40	30.6	Brown, SAND, medium to coarse grained, some gravel, some silt, trace clay, saturated, dense	1	SS	30.6-32.1	12-15-18 (33)	33			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	50.8	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-21
Project	Blennerhassett Bridge	Date Started	11/11/1999
Boring Location	Station 2134+88 Offset 3.0 Rt.	Date Completed	11/11/1999
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 30.2 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		10.0 Brown, SAND, medium to coarse grained, some gravel, some silt, trace clay, saturated, dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	2	SS	35.6-37.1	4-8-25 (33)	20			
541.40	40.6									
		Brown, SAND, medium to coarse grained, some silt, little gravel, trace clay, saturated, medium dense	3	SS	40.6-42.1	9-7-7 (14)	67			
		5.5								
535.90	46.1		4	SS	45.6-47.1	0-12-15 (27)	40			
		Brown, SAND, medium to coarse grained, some gravel, trace silt, saturated, dense								
		2.5								
533.40	48.6									
		Gray, SANDSTONE, highly to completely weathered, extremely soft								
		2.0								
531.40	50.6		5	SS	50.6-50.8	50/0.2	100	72	3	
		Gray, SANDSTONE, fine grained, limey inclusions, few interbedded siltstone laminations, slightly weathered, soft - medium hard	1	NX	50.8-55.8		100			
		5.7								
525.70	56.3		2	NX	55.8-60.8		100	88	1-2	
		Gray and red, SILTY CLAYSTONE, slickensided surfaces, faintly weathered, very soft								
		3.3								
522.40	59.6									
		Gray, SILTSTONE, limey inclusions, slightly weathered, soft								
521.20	60.8	1.2								
		BORING COMPLETED @ 60.8'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	50.8	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-22
Project	Blennerhassett Bridge	Date Started	12/11/2000
Boring Location	Station 2105+34 Offset 53.0 Lt.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
604.80	0.0	Brown, sandy clay (FILL), trace organics (coal fragments), some rock fragments (angular, gravel, sandstone), moist - wet, stiff	1	SS	0.0-1.5	4-5-5 (10)	100			1.5
			2	SS	5.0-6.5	5-6-6 (12)	67			1.5
594.80	10.0	10.0								
		Brown, CLAYEY SAND, some rock fragments (gravel, rounded), wet, loose	3	SS	10.0-11.5	6-1-9 (10)	47			N/A
589.80	15.0	5.0								
		Brown and gray, SAND, fine to medium grained, and rounded gravel, wet, loose	4	SS	15.0-16.5	1-1-2 (3)	13			N/A
			5	SS	20.0-21.5	1-1-3 (4)	73			N/A
			6	SS	25.0-26.5	1-2-3 (5)	100			N/A
			7	SS	30.0-31.5	2-3-3 (6)	100			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	30	ft. ▽
At Completion	8	ft. ▼
After	24 Hrs.	9.5 ft. ▼
Water used in Drilling		63.5 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-22
Project	Blennerhassett Bridge	Date Started	12/11/2000
Boring Location	Station 2105+34 Offset 53.0 Lt.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown and gray, SAND, fine to medium grained, and rounded gravel, wet, loose *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	2-4-3 (7)	100			N/A
	48.5		9	SS	40.0-41.5	3-4-4 (8)	100			N/A
			10	SS	45.0-46.5	4-3-3 (6)	100			N/A
			11	SS	50.0-51.5	4-5-8 (13)	0			N/A
			12	SS	55.0-56.5	6-7-7 (14)	100			N/A
			13	SS	60.0-61.5	5-4-7 (11)	100			N/A
541.30	63.5									
		Gray, SANDSTONE, fine to medium grained, micaceous, slightly to moderately weathered, medium hard	14	SS	63.5-63.5	50/0.0	0	0	3	N/A
	5.7		1	NX	63.5-68.5		18			
535.60	69.2		2	NX	68.5-73.5		100	82	3	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	30	ft.	▽
At Completion	8	ft.	▽
After	24 Hrs.	9.5 ft.	▼
Water used in Drilling	63.5	ft.	

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-22
Project	Blennerhassett Bridge	Date Started	12/11/2000
Boring Location	Station 2105+34 Offset 53.0 Lt.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
532.90	71.9	2.7 Gray to reddish brown, SILTY CLAYSTONE, slickensided surfaces (45° from horizontal), moderately to highly weathered, very soft - soft *(LAYER CONTINUED DESCRIPTION REPEATED)*								
531.30	73.5	1.6 Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	3	NX	73.5-78.5		100	88	3	
527.20	77.6	4.1 Gray, SILTY CLAYSTONE, moderately weathered, very soft - soft	4	NX	78.5-83.5		100	92	3	
520.50	84.3	6.7 Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	5	NX	83.5-88.5		100	90	3	
510.20	94.6	10.3 Gray, SANDSTONE, fine to medium grained, micaceous, slightly weathered, medium hard	6	NX	88.5-93.5		100	78	3	
		Gray to reddish brown, SILTY CLAYSTONE, slickensided surfaces (45° from horizontal), highly weathered, very soft	7	NX	93.5-98.5		100	56	3-1	
			8	NX	98.5-103.5		100	88	1-2	
			9	NX	103.5-108.5		100	96	1-2	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	30	ft.	▽
At Completion	8	ft.	▼
After	24 Hrs. 9.5	ft.	▼
Water used in Drilling	63.5	ft.	

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-22
Project	Blennerhassett Bridge	Date Started	12/11/2000
Boring Location	Station 2105+34 Offset 53.0 Lt.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray to reddish brown, SILTY CLAYSTONE, slickensided surfaces (45° from horizontal), highly weathered, very soft *(LAYER CONTINUED DESCRIPTION REPEATED)*								
		26.3	10	NX	108.5-113.5		84	78	1-2	
			11	NX	113.5-118.5		18	12	1-2	
			12	NX	118.5-123.5		76	26	1-2	
483.90	120.9									
		Gray, SANDSTONE, fine to medium grained, micaceous, slightly weathered, medium hard								
		2.1								
481.80	123.0									
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces (45° from horizontal), highly weathered, very soft	13	NX	123.5-128.5		100	90	1-2	
			14	NX	128.5-133.5		96	90	1-2	
		20.5	15	NX	133.5-138.5		90	84	1-2	
			16	NX	138.5-143.5		96	56	1-2	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	30	ft. ▽
At Completion	8	ft. ▽
After	24 Hrs.	9.5 ft. ▼
Water used in Drilling		63.5 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-22
Project	Blennerhassett Bridge	Date Started	12/11/2000
Boring Location	Station 2105+34 Offset 53.0 Lt.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces (45° from horizontal), highly weathered, very soft *(LAYER CONTINUED DESCRIPTION REPEATED)*								
461.30	143.5									
460.40	144.4	0.9 Gray, CLAYEY SILTSTONE, slightly weathered, soft	17	NX	143.5-148.5		100	52	1-2	
		Reddish brown, CLAYEY SHALE, fissile, moderately weathered, soft								
		6.5	18	NX	148.5-153.5		100	96	1-3	
453.90	150.9									
452.40	152.4	1.5 Gray, SILTY SHALE, moderately weathered, soft								
450.50	154.3	1.9 Gray and reddish brown, CLAYEY SILTSTONE, laminated, moderately weathered, soft	19	NX	153.5-158.5		100	72	1-3	
448.60	156.2	1.9 Gray, SILTY SHALE, limey, fissile, moderately weathered to highly weathered, soft								
446.80	158.0	1.8 Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft								
445.30	159.5	1.5 Gray, SANDY SILTSTONE, slightly weathered, medium hard	20	NX	158.5-163.5		96	66	3-2	
		Reddish brown, SILTY CLAYSTONE, highly weathered, very soft								
		9.0	21	NX	163.5-168.5		100	64	2	
436.30	168.5									
		BORING COMPLETED @ 168.5'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	30	ft. ▽
At Completion	8	ft. ▼
After	24 Hrs. 9.5	ft. ▼
Water used in Drilling	63.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client: Michael Baker Jr., Inc.
Project: Blennerhassett Bridge
Boring Location: Station 2105+40 Offset 60.0 Rt.
Elev. Ref.: E.L. Robinson
Remarks:

Boring No.: B-23
Date Started: 12/7/2000
Date Completed: 12/8/2000
Order No.: 92143.005
Inspector: H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
599.30	0.0	Brown, gravel (FILL), same sand, trce clay, limestone gravel and coal fragments, moist, medium stiff	1	SS	0.0-1.5	17-5-3 (8)	100			N/A
594.30	5.0									
		Brown and gray, LEAN CLAY, mottled, moist, medium stiff	2	SS	5.0-6.5	2-3-2 (5)	100			1.0
589.30	10.0									
		Brown, SILTY CLAY, moist - wet, soft	3	SS	10.0-11.5	2-2-2 (4)	100			0.25
584.30	15.0									
		Brown, SAND, medium to coarse grained, fine sand at 55.0', wet - saturated, medium dense - dense	4	SS	15.0-16.5	5-7-9 (16)	100			N/A
			5	SS	20.0-21.5	2-3-2 (5)	100			N/A
			6	SS	25.0-26.5	5-5-5 (10)	87			N/A
			7	SS	30.0-31.5	4-5-7 (12)	100			N/A

General Notes
Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations
Immediate: 20 ft. ▽
At Completion: 13.7 ft. ▼
After: 24 Hrs. B.F. ft.
Water used in Drilling: 60.5 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-23
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2105+40 Offset 60.0 Rt.	Date Completed	12/8/2000"
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium to coarse grained, fine sand at 55.0', wet - saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	7-5-4 (9)	100			N/A
		45.0	9	SS	40.0-41.5	7-5-7 (12)	100			N/A
			10	SS	45.0-46.5	4-4-7 (11)	80			N/A
			11	SS	50.0-51.5	4-3-9 (12)	100			N/A
			12	SS	55.0-56.5	11-17-37 (54)	100			N/A
539.30	60.0		13	SS	60.0-60.5	50/0.5	0			N/A
		Red and gray mottled, SILTY CLAYSTONE, fractured zone between 62.5' to 63.5', highly weathered, soft	1	NX	60.5-65.5		82	40	2	
536.10	63.2	3.2								
		Gray, SANDY SILTSTONE (interbedded), slickensided surfaces (45°) at 67.1' to 67.3', limey inclusions, moderately weathered, soft - medium hard	2	NX	65.5-70.5		100	92	3	
532.90	66.4	3.2								
531.70	67.6	Gray, CLAYEY SILTSTONE, moderately weathered, soft 1.2								
		Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard 3.0								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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Water Level Obserations

Immediate	20	ft. ▽
At Completion	13.7	ft. ▼
After	24 Hrs.	B.F. ft.
Water used in Drilling	60.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-23
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2105+40 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
528.70	70.6	Gray, SANDY SILTSTONE, slightly weathered, medium hard	3	NX	70.5-75.5		94	80	3	
		4.9								
523.80	75.5	Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	4	NX	75.5-80.5		100	68	3	
		4.5								
519.30	80.0	Gray, SANDSTONE, fine to medium grained, frature at 89.0' to 89.4' (45° from horizontal), slightly weathered, medium hard	5	NX	80.5-85.5		100	96	3	
		10.5	6	NX	85.5-90.5		94	80	3	
508.80	90.5	Gray, SILTY SHALE, fissile, moderately to highly weathered, soft	7	NX	90.5-95.5		86	50	2	
		2.1								
506.70	92.6	Gray and reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft	8	NX	95.5-100.5		96	58	2-1	
			9	NX	100.5-105.5		100	74	2-1	
		21.7								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	20	ft. ▽
At Completion	13.7	ft. ▼
After	24 Hrs.	B.F. ft.
Water used in Drilling	60.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-23
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2105+40 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray and reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	10	NX	105.5-110.5		100	54	2-1	
			11	NX	110.5-115.5		94	76	2-1	
485.00	114.3									
		Gray and reddish brown, CLAYEY SILTSTONE, moderately weathered, very soft	12	NX	115.5-120.5		100	60	2-1	
			13	NX	120.5-125.5		100	80	2-1	
		15.7								
			14	NX	125.5-130.5		98	82	2-1	
469.30	130.0									
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft	15	NX	130.5-135.5		98	80	2-1	
		5.0								
464.30	135.0									
		Gray and reddish brown, CLAYEY SILTSTONE, moderatley weathered, soft	16	NX	135.5-140.5		90	76	2-1	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	20	ft. ▽
At Completion	13.7	ft. ▼
After	24 Hrs.	B.F. ft.
Water used in Drilling	60.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-23
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2105+40 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		10.5 Gray and reddish brown, CLAYEY SILTSTONE, moderatley weathered, soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	17	NX	140.5-145.5		86	58	2-1	
453.80	145.5	BORING COMPLETED @ 145.5'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	20	ft. ▽
At Completion	13.7	ft. ▼
After	24 Hrs.	B.F. ft.
Water used In Drilling	60.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-24
Project	Blennerhassett Bridge	Date Started	12/5/2000
Boring Location	Station 2106+00 Offset 60.0 Lt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
600.00	0.0	Brown and black, gravel (FILL), coal and limestone gravel, trace clay, moist, medium dense	1	SS	0.0-1.5	7-10-4 (14)	67			N/A
595.00	5.0	Brown and gray, LEAN CLAY, mottled, little rock fragments (rounded gravel), very moist, medium stiff	2	SS	5.0-6.5	2-2-5 (7)	100			1.75
590.00	10.0	Gray and brown, SILTY CLAY, wet, soft - medium stiff	3	SS	10.0-11.5	1-1-2 (3)	53			0.25
			4	SS	15.0-16.5	2-2-2 (4)	100			0.25
			5	SS	20.0-21.5	2-1-2 (3)	100			0.25
			6	SS	25.0-26.5	2-1-2 (3)	100			0.25
			7	SS	30.0-31.5	1-1-7 (8)	100			0.75
565.00	35.0									

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25.0	ft. ▽
At Completion	14.2	ft. ▼
After	24 Hrs. 21.3	ft. ▼
Water used in Drilling	60	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-24
Project	Blennerhassett Bridge	Date Started	12/5/2000
Boring Location	Station 2106+00 Offset 60.0 Lt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray and brown, SAND, medium to coarse grained, some gravel, wet - saturated, loose - dense	8	SS	35.0-36.5	2-2-4 (6)	100			N/A
			9	SS	40.0-41.5	6-7-6 (13)	100			N/A
			10	SS	45.0-46.5	5-7-15 (22)	100			N/A
		25.0	11	SS	50.0-51.5	15-17-24 (41)	100			N/A
			12	SS	55.0-55.3	50/0.3	33			N/A
540.00	60.0	Gray, CLAYEY SILTSTONE, few very thin fine grained sandstone interbeds, highly weathered, soft	13	SS	60.0-60.0	50/0.0	0	0	N/A	N/A
			1	NX	60.0-61.0		30	0	2	
		6.0	2	NX	61.0-66.0		44	28	2	
534.00	66.0	Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	3	NX	66.0-71.0		100	74	3	
		3.2								
530.80	69.2									
530.30	69.7	0.5 Gray, CLAYEY SILTSTONE, laminated,								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25.0	ft. ▽
At Completion	14.2	ft. ▼
After	24 Hrs.	21.3 ft. ▼
Water used in Drilling	60	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-24
Project	Blennerhassett Bridge	Date Started	12/5/2000
Boring Location	Station 2106+00 Offset 60.0 Lt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		moderately to highly weathered, soft								
		Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*	4	NX	71.0-76.0		100	100	3	
		10.3	5	NX	76.0-81.0		88	88	3	
520.00	80.0	Gray, CLAYEY SILTSTONE, laminated, moderately to highly weathered, soft								
		2.2	6	NX	81.0-86.0		100	100	3	
517.80	82.2	Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard								
		8.7	7	NX	86.0-91.0		86	60	3	
509.10	90.9	Gray, CLAYEY SILTSTONE, laminated, moderately to highly weathered	8	NX	91.0-96.0		100	54	2	
		3.6								
505.50	94.5	Gray and reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft	9	NX	96.0-101.0		92	60	2	
		20.2	10	NX	101.0-106.0		100	82	2	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25.0	ft.	▽
At Completion	14.2	ft.	▼
After	24 Hrs.	21.3 ft.	▼
Water used in Drilling	60	ft.	

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-24
Project	Blennerhassett Bridge	Date Started	12/5/2000
Boring Location	Station 2106+00 Offset 60.0 Lt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray and reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	11	NX	106.0-111.0		92	86	1-2	
			12	NX	111.0-116.0		100	88	1-2	
485.30	114.7									
		1.3 Gray, SANDSTONE, fine grained, slightly weathered, medium hard								
484.00	116.0		13	NX	116.0-121.0		88	78	1-2	
		1.4 Gray, SANDY SILTSTONE, slightly weathered, medium hard								
482.60	117.4									
		Reddish brown, SILTY CLAYSTONE, highly weathered, very soft - soft								
		3.6								
479.00	121.0									
		BORING COMPLETED @ 121.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25.0	ft. ▽
At Completion	14.2	ft. ▽
After	24 Hrs.	21.3 ft. ▼
Water used in Drilling	60	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-25
Project	Biennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2105+70 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
599.30	0.0									
598.80	0.5	0.5 TOPSOIL	1	SS	0.0-1.5	2-1-2 (3)	100			0.5
		Brown, LEAN CLAY, trace silt, trace organics, very moist - wet, soft								
			2	SS	5.0-6.5	1-0-1 (1)	73			0.5
		10.5								
588.30	11.0		3	SS	10.0-11.5	2-1-2 (3)	100			0.5
		Gray, SILT, trace clay, very moist - wet, loose								
			4	SS	15.0-16.5	2-2-2 (4)	100			N/A
			5	SS	20.0-21.5	1-2-2 (4)	100			N/A
		19.0								
			6	SS	25.0-26.5	2-2-2 (4)	100			N/A
569.30	30.0									
		Brown, SAND, trace silt, saturated, loose	7	SS	30.0-31.5	2-3-5 (8)	100			N/A

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	20	ft. ▽
At Completion	13.1	ft. ▼
After	24 Hrs. 20.7	ft. ▼
Water used in Drilling	59.8	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-25
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2105+70 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, trace silt, saturated, loose *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	3-3-3 (6)	100			N/A
			9	SS	40.0-41.5	2-3-3 (6)	100			N/A
			10	SS	45.0-46.5	2-2-4 (6)	100			N/A
			11	SS	50.0-51.5	6-7-5 (12)	100			N/A
			12	SS	55.0-56.5	21-17-27 (44)	100			N/A
539.50	59.8	29.8								
		Red and gray, SILTY CLAYSTONE, limey inclusions, moderately to highly weathered, very soft	13	SS	59.8-59.8	50/0.0	0	0	N/A	N/A
			1	NX	59.8-64.0		90	46	1-2	
536.30	63.0	3.2								
		SANDY SILTSTONE, limey inclusions, moderately weathered, soft	2	NX	64.0-65.5		100	100	2	
			3	NX	65.5-70.5		100	86	2	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	20	ft. ▽
At Completion	13.1	ft. ▽
After	24 Hrs.	20.7 ft. ▼
Water used in Drilling	59.8	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-25
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2105+70 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		SANDY SILTSTONE, limey inclusions, moderately weathered, soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	4	NX	70.5-75.5		100	100	2	
		19.5	5	NX	75.5-80.5		100	100	2	
516.80	82.5		6	NX	80.5-85.5		100	94	2-3	
		Gray, SANDSTONE, fine to medium grained, micaceous laminations, cross-bedded, limey inclusions, slightly weathered, medium hard	7	NX	85.5-90.5		98	90	3	
		4.9								
508.90	90.4									
508.10	91.2	0.8 Gray, SANDY SILTSTONE, slightly weathered, medium hard	8	NX	90.5-95.5		100	84	0-2	
		Gray to reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft	9	NX	95.5-100.5		90	58	1-2	
		10.3								
497.80	101.5		10	NX	100.5-105.5		88	68	1-2	
		Gray to reddish brown, CLAYEY SILTSTONE, moderatley weathered, soft								
		4.0								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	20	ft. ▽
At Completion	13.1	ft. ▼
After	24 Hrs. 20.7	ft. ▼
Water used in Drilling	59.8	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-25
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2105+70 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
493.80	105.5	Reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft	11	NX	105.5-110.5		100	38	1-2	
		8.2	12	NX	110.5-115.5		100	92	1-2	
485.60	113.7	Gray, SANDY SILTSTONE, slightly weathered, medium hard								
		1.8	13	NX	115.5-120.5		100	88	1-2	
483.80	115.5	Reddish brown, CLAYEY SILTSTONE, highly weathered, soft	14	NX	120.5-125.5		96	90	1-2	
		14.6	15	NX	125.5-130.5		100	14	1-2	
469.20	130.1	Reddish brown, SILTY CLAYSTONE, highly weathered, very soft	16	NX	130.5-135.5		100	96	1-2	
		9.3	17	NX	135.5-140.5		80	72	1-2	
459.90	139.4									
459.40	139.9	0.5								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	20	ft. ▽
At Completion	13.1	ft. ▼
After	24 Hrs.	20.7 ft. ▼
Water used in Drilling	59.8	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-25
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2105+70 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
458.80	140.5	0.6 Gray, SANDY SILTSTONE, slightly weathered, medium hard Reddish brown, CLAYEY SILTSTONE, moderately weathered, soft *(LAYER CONTINUED DESCRIPTION REPEATED)* BORING COMPLETED @ 140.5'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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Water Level Obserations

Immediate	20	ft.	▽
At Completion	13.1	ft.	▼
After	24 Hrs.	20.7 ft.	▼
Water used in Drilling	59.8	ft.	

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-26
Project	Blennerhassett Bridge	Date Started	12/18/2000
Boring Location	Station 2106+61 Offset 57.0 Lt.	Date Completed	12/18/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
599.40	0.0	
598.40	1.0	1.0 CONCRETE
597.40	2.0	1.0 Base course aggregate
		Gray-brown, SILTY CLAY, moist - saturated, medium stiff - soft
		38.0

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	3.5-5.0	3-3-3 (6)	100			0.5
2	SS	5.0-6.5	3-3-4 (7)	67			0.5
3	SS	10.0-11.5	1-1-1 (2)	67			0.25
4	SS	15.0-16.5	1-1-1 (2)	100			0.25
5	SS	20.0-21.5	1-1-1 (2)	100			0.25
6	SS	25.0-26.5	1-2-3 (5)	100			0.25
7	SS	30.0-31.5	1-1-1 (2)	100			0.25

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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912 Morris Street
Charleston WV 25301
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	20	ft. ▽		
At Completion	6.8	ft. ▼		
After	24	Hrs.	21	ft. ▼
Water used In Drilling	57	ft.		

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-26
Project	Blennerhassett Bridge	Date Started	12/18/2000
Boring Location	Station 2106+61 Offset 57.0 Lt.	Date Completed	12/18/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray-brown, SILTY CLAY, moist - saturated, medium stiff - soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	1-1-1 (2)	100			0.25
559.40	40.0									
		Brown and gray, SAND, fine to medium grained, some rounded gravel, wet - saturated, loose - dense	9	SS	40.0-41.5	2-6-12 (18)	100			N/A
			10	SS	45.0-46.5	48-18-20 (38)	100			N/A
	17.0		11	SS	50.0-51.5	17-19-21 (40)	100			N/A
			12	SS	55.0-56.5	15-15-15 (30)	100			N/A
542.40	57.0									
		Gray and red, SILTY CLAYSTONE, slickensided surfaces, moderately to highly weathered, very soft - soft	13	SS	57.0-57.0	50/0.0	0	0	N/A	N/A
	5.8		1	NX	57.0-62.0		100	50	1-2	
536.60	62.8		2	NX	62.0-67.0		98	92	3	
		Gray, SANDSTONE, fine to medium grained, some clayey siltstone interbeds, slightly to moderately weathered, medium hard								
			3	NX	67.0-72.0		96	64	3	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: 20 ft. ▽
At Completion: 6.8 ft. ▼
After: 24 Hrs. 21 ft. ▼
Water used in Drilling: 57 ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-26
Project	Blennerhassett Bridge	Date Started	12/18/2000
Boring Location	Station 2106+61 Offset 57.0 Lt.	Date Completed	12/18/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		14.2 Gray, SANDSTONE, fine to medium grained, some clayey siltstone interbeds, slightly to moderately weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			4	NX	72.0-77.0		100	86	3	
522.40	77.0	BORING COMPLETED @ 77.0'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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Water Level Obserations

Immediate	20	ft.	▽
At Completion	6.8	ft.	▼
After	24 Hrs.	21 ft.	▼
Water used in Drilling	57	ft.	

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-27
Project	Blennerhassett Bridge	Date Started	12/12/2000
Boring Location	Station 2106+75 Offset 60.0 Rt.	Date Completed	12/12/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
599.60	0.0	Dark brown, lean clay (FILL), some organics (coal fragments), moist, stiff - very stiff	1	SS	0.0-1.5	2-7-14 (21)	100			1.75
	4.0									
595.60	4.0	Grayish brown, SILTY CLAY, moist - saturated, soft	1	ST	4.0-6.0		85			
			2	SS	6.0-7.5	2-2-2 (4)	0			N/A
			3	SS	10.0-11.5	1-1-1 (2)	100			0.5
			4	SS	15.0-16.5	1-1-1 (2)	100			0.25
			5	SS	20.0-21.5	1-1-2 (3)	100			0.5
	37.0		6	SS	25.0-26.5	1-2-2 (4)	100			0.5
			7	SS	30.0-31.5	1-1-1 (2)	100			N/A

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	21	ft. ▽	
At Completion		ft.	
After	24	Hrs. NA	ft.
Water used in Drilling	57	ft.	

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-27
Project	Blennerhassett Bridge	Date Started	12/12/2000
Boring Location	Station 2106+75 Offset 60.0 Rt.	Date Completed	12/12/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Grayish brown, SILTY CLAY, moist - saturated, soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	1-2-2 (4)	100			N/A
558.60	41.0		9	SS	40.0-41.5	2-3-17 (20)	53			N/A
		Gray and brown, SAND, and gravel, medium grained, trace clay, saturated, medium dense - dense	10	SS	45.0-46.5	17-14-17 (31)	67			N/A
		15.0	11	SS	50.0-51.5	10-11-14 (25)	100			N/A
543.60	56.0		12	SS	55.0-56.4	16-37-50/0.4	100			N/A
		Reddish brown and gray, SILTY CLAYSTONE, completely to highly weathered, extremely soft - very soft	13	SS	57.0-57.0	50/0.0	0	0	N/A	N/A
		7.0	1	NX	57.0-62.0		14	0	0-1	
536.60	63.0		2	NX	62.0-67.0		78	40	1-3	
		Gray, SANDSTONE, fine to medium grained, some clayey siltstone interbeds, micaceous, slightly to moderately weathered, medium hard	3	NX	67.0-72.0		100	92	3	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	21	ft. ▽
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	57	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-27
Project	Blennerhassett Bridge	Date Started	12/12/2000
Boring Location	Station 2106+75 Offset 60.0 Rt.	Date Completed	12/12/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SANDSTONE, fine to medium grained, some clayey siltstone interbeds, micaceous, slightly to moderately weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
	19.0		4	NX	72.0-77.0		100	96	3	
			5	NX	77.0-82.0		100	72	3	
517.60	82.0	BORING COMPLETED @ 82.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS/ST

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	21	ft. ▽
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	57	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-28
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2108+50 Offset 0.0 CL.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
600.40	0.0									
599.50	0.9	0.9 CONCRETE								
		Brown, SILTY CLAY, moist, very stiff								
		9.1	1	SS	5.0-6.5	7-8-10 (18)	100			2.5
590.40	10.0									
		Brown and gray mottled, SANDY CLAY, moist - wet, medium stiff	2	SS	10.0-11.5	3-3-3 (6)	100			0.75
		5.0								
585.40	15.0									
		Brown and gray, SILTY CLAY, moist - saturated, stiff - soft	3	SS	15.0-16.5	3-6-7 (13)	100			1.5
		11.0	4	SS	20.0-21.5	1-1-1 (2)	87			0.5
			5	SS	25.0-26.5	3-3-4 (7)	93			0.75
574.40	26.0									
		Brown, SAND, fine to medium grained, some rounded gravel, wet - saturated, loose - dense								
			6	SS	30.0-31.5	3-3-4 (7)	100			N/A

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	22	ft. ▽	
At Completion		ft.	
After	24 Hrs.	NA	ft.
Water used in Drilling	55	ft.	

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-28
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2108+50 Offset 0.0 CL.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, fine to medium grained, some rounded gravel, wet - saturated, loose - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	7	SS	35.0-36.5	4-6-9 (15)	100			N/A
			8	SS	40.0-41.5	10-10-10 (20)	100			N/A
			9	SS	45.0-46.5	10-12-11 (23)	87			N/A
			10	SS	50.0-51.5	10-14-16 (30)	100			N/A
545.40	55.0	29.0								
		Reddish brown to gray, SILTY CLAYSTONE, slickensided surfaces, highly weathered, very soft - soft	11	SS	55.0-55.0	50/0.0	0	0	N/A	N/A
			1	NX	55.0-57.0		0	0	N/A	
			2	NX	57.0-62.0		96	18	1-2	
538.40	62.0	7.0								
		Gray, SANDSTONE, fine to medium grained, some clayey siltstone interbeds, slighty weathered, medium hard	3	NX	62.0-67.0		100	94	3	
			4	NX	67.0-72.0		100	78	3	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	22	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	55	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-28
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2108+50 Offset 0.0 CL.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SANDSTONE, fine to medium grained, some clayey siltstone interbeds, slighty weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			5	NX	72.0-77.0		100	88	3	
		30.0	6	NX	77.0-82.0		98	98	3	
			7	NX	82.0-87.0		98	80	3	
			8	NX	87.0-92.0		86	68	3	
508.40	92.0	BORING COMPLETED @ 92.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	22	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	55	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-29
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2109+10 Offset 60.0 Lt.	Date Completed	12/14/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
581.50	0.0	Brown, SAND, fine grained, some silt in upper 10.0', saturated, loose - medium dense
561.50	20.0	Brown, SAND and GRAVEL, saturated, medium dense - dense
547.00	34.5	

SAMPLE

NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	1-2-1 (3)	100			N/A
2	SS	5.0-6.5	2-2-2 (4)	100			N/A
3	SS	10.0-11.5	3-5-5 (10)	100			N/A
4	SS	15.0-16.5	6-7-7 (14)	100			N/A
5	SS	20.0-21.5	5-6-5 (11)	40			N/A
6	SS	25.0-26.5	7-7-11 (18)	33			N/A
7	SS	30.0-30.0	13-13-13 (26)	12000			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	-1	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	39.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-29
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2109+10 Offset 60.0 Lt.	Date Completed	12/14/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Red and gray, SILTY CLAYSTONE, highly to moderately weathered, very soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	50/0.0	0			N/A
	7.8									
			9	SS	39.5-39.5	50/0.0	0	0	N/A	N/A
			1	NX	39.5-40.5		100	0	1	
539.20	42.3		2	NX	40.5-45.5		88	64	1-3	
		Gray, SANDSTONE, fine grained, micaceous laminations, limey inclusions, 45° fracture at 56.3' to 60.2', moderately to slightly weathered, medium hard	3	NX	45.5-50.5		98	98	3	
			4	NX	50.5-55.5		100	96	3	
	20.6		5	NX	55.5-60.5		100	80	3	
			6	NX	60.5-65.5		92	66	3	
518.60	62.9									
		Gray, SANDSTONE, medium to coarse grained, slightly weathered, medium hard	7	NX	65.5-70.5		100	76	3	
	7.6									

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	-1	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling		39.5 ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-29
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2109+10 Offset 60.0 Lt.	Date Completed	12/14/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
511.00	70.5	BORING COMPLETED @ 70.5'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: -1 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: 39.5 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-30
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2109+08 Offset 59.0 Rt.	Date Completed	12/14/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
589.60	0.0	Brown, SILTY CLAY, moist, medium stiff	1	SS	0.0-1.5	1-3-4 (7)	67			0.5
			2	SS	5.0-6.5	3-4-4 (8)	73			0.75
	10.0									
579.60▽	10.0	Brown, SAND, fine to medium grained, some rounded gravel, wet - saturated, loose - medium dense	3	SS	10.0-11.5	2-3-5 (8)	67			0.75
			4	SS	15.0-16.5	2-3-3 (6)	100			N/A
			5	SS	20.0-21.5	3-3-4 (7)	100			N/A
			6	SS	25.0-26.5	3-4-6 (10)	80			N/A
	37.5		7	SS	30.0-31.5	5-6-8 (14)	100			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	10	ft. ▽
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	50	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-30
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2109+08 Offset 59.0 Rt.	Date Completed	12/14/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, fine to medium grained, some rounded gravel, wet - saturated, loose - medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	5-7-7 (14)	100			N/A
			9	SS	40.0-41.5	6-8-8 (16)	100			N/A
			10	SS	45.0-46.5	6-8-10 (18)	87			N/A
542.10	47.5	Reddish brown to gray, SILTY CLAYSTONE, slickensided surfaces, highly weathered, very soft	11	SS	50.0-50.0	50/0.0	0	0	N/A	N/A
			1	NX	50.0-51.0		90	40	1	
	8.3		2	NX	51.0-56.0		100	92	1-3	
533.80	55.8	Gray, SANDSTONE, fine to medium grained, some thin siltstone interbeds, slightly to moderately weathered, medium hard	3	NX	56.0-61.0		100	16	3	
			4	NX	61.0-66.0		100	44	3	
	25.2		5	NX	66.0-71.0		100	44	3	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	10	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	50	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-30
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2109+08 Offset 59.0 Rt.	Date Completed	12/14/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SANDSTONE, fine to medium grained, some thin siltstone interbeds, slightly to moderately weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*	6	NX	71.0-76.0		100	58	3	
			7	NX	76.0-81.0		100	56	3	
508.60	81.0	BORING COMPLETED @ 81.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	10	ft.	▽
At Completion		ft.	
After	24 Hrs.	NA	ft.
Water used in Drilling	50	ft.	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-31
Project	Blennerhassett Bridge	Date Started	12/12/2000
Boring Location	Station 2117+60 Offset 80.0 Lt.	Date Completed	12/12/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 44.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		22.3								
559.70	22.3									
		2.0 Gray, SILTY SAND (probable, no recovery), saturated, loose	1	SS	22.3-23.8	3-4-4 (8)	0			N/A
557.70	24.3									
		Gray and brown, SAND and GRAVEL, few sand layers, cobbles throughout, saturated, medium dense	2	SS	26.8-28.3	7-6-5 (11)	40			N/A
			3	SS	31.8-33.3	18-15-4 (19)	0			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	46.8	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-31
Project	Blennerhassett Bridge	Date Started	12/12/2000
Boring Location	Station 2117+60 Offset 80.0 Lt.	Date Completed	12/12/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 44.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		21.5 Gray and brown, SAND and GRAVEL, few sand layers, cobbles throughout, saturated, medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			4	SS	36.8-38.3	11-9-8 (17)	0			N/A
			5	SS	41.8-43.3	21-27-30 (57)	67			N/A
536.20	45.8									
		1.9 Red and gray, SILTY CLAYSTONE, moderately weathered, very soft	6	SS	46.8-46.8	50/0.0	0	0	N/A	N/A
534.30	47.7		1	NX	46.8-51.8		90	60	1-2	
533.40	48.6	0.9 Gray, SILTSTONE, moderately weathered, soft								
		1.8 Red, SILTY CLAYSTONE, moderately weathered, very soft								
531.60	50.4									
		1.6 Gray, SANDSTONE, fine to very fine grained, few limey inclusions, 50° fracture at 51.1', slightly weathered, medium hard								
530.00	52.0		2	NX	51.8-56.8		100	72	3-2	
		3.9 Gray, SANDSTONE, fine grained, thin shale interbed at 54.7', slightly weathered, medium hard								
526.10	55.9									
		2.0 Gray, SILTSTONE, few thin shale interbeds, moderately weathered, soft	3	NX	56.8-61.8		100	92	3	
524.10	57.9									
		Gray, SANDSTONE, fine grained, micaceous laminations, slightly limey, faintly weathered, medium hard								
		8.9	4	NX	61.8-66.8		98	98	3	
515.20	66.8									
		BORING COMPLETED @ 66.8'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	46.8	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-32
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2117+60 Offset 80.0 Rt.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 44.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		22.3								
559.70	22.3									
558.70	23.3	1.0 Gray, SILTY SAND, saturated, loose	1	SS	22.3-23.8	5-11-11 (22)	67			N/A
		Gray and brown, SAND and GRAVEL, few sand layers, few cobbles, saturated, medium dense - dense								
			2	SS	26.8-28.3	12-10-10 (20)	33			N/A
			3	SS	31.8-33.3	8-8-8 (16)	13			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	46.8	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-32
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2117+60 Offset 80.0 Rt.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 44.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		23.0 Gray and brown, SAND and GRAVEL, few sand layers, few cobbles, saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			4	SS	36.8-38.3	6-6-5 (11)	7			N/A
			5	SS	41.8-43.3	24-16-13 (29)	53			N/A
535.70	46.3									
		Red and gray, SILTY CLAYSTONE, probable (no recovery), highly weathered, very soft	6	SS	46.8-46.8	50/0.0	0	0	N/A	N/A
		4.3	1	NX	46.8-51.8		24	10	1-2	
531.40	50.6									
530.20	51.8	1.2 Gray, SANDSTONE, very fine grained, moderately weathered, soft								
		Gray, SANDSTONE, fine grained, medium bedded, few limey inclusions, clay lamination at 56.3', slightly weathered, medium hard	2	NX	51.8-56.8		98	94	3	
		4.9								
525.30	56.7									
524.70	57.3	0.6 Gray, CLAYEY SILTSTONE, highly weathered, very soft	3	NX	56.8-61.8		100	64	3	
		Gray, SANDSTONE, fine grained, micaceous laminations, slighlty limey, slightly weathered, medium hard								
		9.5	4	NX	61.8-66.8		86	52	3	
515.20	66.8									
		BORING COMPLETED @ 66.8'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	46.8	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-33
Project	Blennerhassett Bridge	Date Started	12/10/2000
Boring Location	Station 2118+00 Offset 35.0 Lt.	Date Completed	12/10/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 37.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		20.0								
562.04	20.0	Gray, SAND, fine grained, trace rock fragments (gravel), trace organics (wood fragments), saturated, medium dense	1	SS	20.0-21.5	1-13-13 (26)	80			N/A
		5.0								
557.04	25.0	Gray, SAND and GRAVEL, little clay, cobbles throughout, saturated, medium dense - dense	2	SS	27.0-28.5	4-6-6 (12)	100			N/A
			3	SS	32.0-33.5	39-33-17 (50)	7			N/A

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-33
Project	Blennerhassett Bridge	Date Started	12/10/2000
Boring Location	Station 2118+00 Offset 35.0 Lt.	Date Completed	12/10/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 37.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SAND and GRAVEL, little clay, cobbles throughout, saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	19.5								
				4	SS	37.0-38.5	13-10-8 (18)	7			N/A
				5	SS	42.0-43.5	13-19-12 (31)	100			N/A
537.54	44.5	Red, CLAYSTONE, highly weathered, extremely soft	5.3	6	SS	46.1-46.5	50/0.4	100	0	0	N/A
				1	NX	46.5-47.0		0			
				2	NX	47.0-52.0		96	62	0-3	
532.24	49.8	Gray, SILTSTONE, thinly bedded, moderately weathered, soft	1.0								
531.24	50.8	Gray, SANDSTONE, fine grained, medium bedded, micaceous, clay laminations at 55.3' and 54.1', few limey inclusions, slightly weathered, medium hard	5.2	3	NX	52.0-57.0		99	97	3	
526.04	56.0										
525.04	57.0	Gray, SILTSTONE, 45 degree slickensided surface at 36.9', limey inclusions, slightly to moderately weathered, medium hard	1.0								
		BORING COMPLETED @ 57.0'									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-34
Project	Blennerhassett Bridge	Date Started	12/12/2000
Boring Location	Station 2118+00 Offset 35.0 Lt.	Date Completed	12/12/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 72.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER, saturated, very loose								
		19.8								
562.20	19.8	Gray, SILTY SAND, trace organics (roots), saturated, medium dense	1	SS	19.8-21.3	2-2-2 (4)	100			N/A
		2.0								
560.20	21.8	Gray, SAND and GRAVEL, trace silt, few sand layers, boulders and cobbles from 27.8' to 31.8', soft	2	SS	21.8-23.3	7-9-11 (20)	40			N/A
			3	SS	26.8-28.3	22-24-18 (42)	80			N/A
			4	SS	31.8-33.3	7-4-4 (8)	0			N/A
		24.5								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-34
Project	Blennerhassett Bridge	Date Started	12/12/2000
Boring Location	Station 2118+00 Offset 35.0 Lt.	Date Completed	12/12/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 72.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SAND and GRAVEL, trace silt, few sand layers, boulders and cobbles from 27.8' to 31.8', soft *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			5	SS	36.8-38.3	4-8-6 (14)	67			N/A
			6	SS	41.8-43.3	17-13-13 (26)	87			N/A
535.70	46.3									
		Gray, SANDSTONE, very fine grained, slightly weathered 2.4	7	SS	46.8-46.8	50/0.0	0	0	N/A	N/A
533.30	48.7		1	NX	46.8-49.3		97	76	2-1	
532.60	49.4	0.7 Gray and red, SILTY CLAYSTONE, few limey inclusions, highly weathered, very soft	2	NX	49.3-52.3		100	97	1-4	
531.50	50.5	1.1 Gray, SILTSTONE, thinly bedded, thin clay layer at 50.4' to 50.5', moderately weathered, soft								
528.20	53.8	3.3 Gray, SANDSTONE, fine grained, medium bedded, slightly limey, horizontal fracture at 52.5', slightly weathered, medium hard	3	NX	52.3-57.3		100	62	1-31-3	
524.90	57.1	3.3 Gray, SILTSTONE, thinly bedded, few limey inclusions, few thin sandstone interbeds, many thin shale interbeds, skightly broken, moderately weathered, very soft								
		Gray, SANDSTONE, fine grained, medium bedded, micaceous laminations, faintly weathered, medium hard	4	NX	57.3-62.3		98	98	3	
		11.7	5	NX	62.3-67.3		100	94	3	
513.20	68.8		6	NX	67.3-72.3		94	76	3-2	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-34
Project	Blennerhassett Bridge	Date Started	12/12/2000
Boring Location	Station 2118+00 Offset 35.0 Lt.	Date Completed	12/12/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 72.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SILTSTONE, thinly bedded, few thin sandstone interbeds, shale interbeds at 69.0' to 69.1' and 69.8' to 70.1', slightly weathered, very soft - soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	5.6								
507.60	74.4			7	NX	72.3-77.3		100	96	2-1	
		Red and gray, SHALE, fissle, fossiliferous, moderately weathered, soft - very soft	1.5								
506.10	75.9										
		Gray, SANDSTONE, fine grained, slightly weathered, medium hard	2.3								
503.80	78.2			8	NX	77.3-82.3		96	52	3-1	
		Gray and red, SILTY CLAYSTONE, few slickensided surfaces (50° from horizontal), moderatley weathered, very soft	6.8								
497.00	85.0			9	NX	82.3-87.3		100	34	1-2	
		Gray, SANDSTONE, fine grained, many limey inclusions, moderately weathered, medium hard.	3.5								
493.50	88.5			10	NX	87.3-92.3		98	56	3-1	
		Gray, SILTSTONE, thinly bedded, slightly to moderately weathered, medium hard - soft	2.5								
491.00	91.0										
		Red and gray, SILTY CLAYSTONE, slickensided surfaces, moderately weathered, very soft	1.3								
489.70	92.3	BORING COMPLETED @ 92.3'									

TEST BORING BLENN.GPJ HCN_WV.GDT 2/6/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used In Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-35
Project	Blennerhassett Bridge	Date Started	12/10/2000
Boring Location	Station 2118+00 Offset 35.0 Rt.	Date Completed	12/10/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 38.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		18.4								
563.65	18.4	Gray, SAND, fine grained, little silt, saturated, very loose	1	SS	18.4-19.9	1-1-2 (3)	80			N/A
		3.0								
560.65	21.4	Gray, SAND and GRAVEL, cobbles and boulders from 30.4' to 33.4', saturated, medium dense - dense	2	SS	21.9-23.4	11-14-8 (22)	100			N/A
			3	SS	26.9-28.4	10-6-5 (11)	40			N/A
			4	SS	31.9-33.4	21-15-12 (27)	20			N/A
		23.5								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-35
Project	Blennerhassett Bridge	Date Started	12/10/2000
Boring Location	Station 2118+00 Offset 35.0 Rt.	Date Completed	12/10/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 38.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SAND and GRAVEL, cobbles and boulders from 30.4' to 33.4', saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			5	SS	36.9-38.4	10-7-6 (13)	33			N/A
			6	SS	41.9-43.4	15-18-21 (39)	67			N/A
537.15	44.9									
		Red, CLAYSTONE, gray from 47.4' to 48.0', highly weathered, extremely soft	7	SS	46.0-46.4	50/0.4	0			N/A
			1	NX	46.4-46.9		0	0	0	
		5.5	2	NX	46.9-51.9		94	74	0-3	
531.65	50.4									
530.65	51.4	1.0 Gray, SILTSTONE, thinly bedded, moderately weathered, soft								
		Gray, SANDSTONE, fine grained, medium bedded, limey inclusions, horizontal fractures at 54.9', slightly weathered, medium hard	3	NX	51.9-56.9		101	87	3	
		5.5								
525.15	56.9									
		BORING COMPLETED @ 56.9'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-36
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2118+40 Offset 80.0 Lt.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 55.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		11.5								
570.47	11.5	Brown, SILTY CLAY, little fine sand, saturated, soft	1	SS	11.5-13.0	0-3-3 (6)	100			0.5
		5.5								
564.97	17.0	Brown, SAND, fine grained, little silt, trace clay, saturated, loose	2	SS	16.5-18.0	3-4-3 (7)	100			N/A
		5.0								
559.97	22.0	Gray, SAND, fine grained, little gravel, trace organics (wood fragments), saturated, medium dense	3	SS	21.5-23.0	3-8-8 (16)	100			N/A
		5.5								
554.47	27.5	Gray, SAND and GRAVEL, few sand layers, saturated, medium dense	4	SS	26.5-28.0	8-12-6 (18)	67			N/A
			5	SS	31.5-33.0	13-14-6 (20)	47			N/A

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-36
Project	Blennerhassett Bridge	Date Started	12/13/2000
Boring Location	Station 2118+40 Offset 80.0 Lt.	Date Completed	12/13/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 55.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SAND and GRAVEL, few sand layers, saturated, medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)* 17.5								
			6	SS	36.5-38.0	8-5-7 (12)	0			N/A
			7	SS	41.5-43.0	50/0.0	0			N/A
536.97	45.0	Red and gray, SILTY CLAYSTONE, slickensided surfaces, moderately weathered, very soft 5.3	8	SS	46.5-16.5	50/0.0	0	0	N/A	N/A
			1	NX	46.5-51.5		44	24	1-3	
531.67	50.3	Gray, SANDSTONE, fine grained, few limey inclusion, slightly weathered, medium hard 3.5	2	NX	51.5-56.5		100	94	3-2	
528.17	53.8	Gray, CLAYEY SILTSTONE, limey inclusions, moderately weathered, soft 2.5								
525.67	56.3	Gray, SANDSTONE, fine grained, micaceous laminations, many thin shale interbeds, few limey inclusions, slightly weathered, medium hard 10.2	3	NX	56.5-61.5		98	90	3	
			4	NX	61.5-66.5		100	98	3	
515.47	66.5	BORING COMPLETED @ 66.5'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-37
Project	Blennerhassett Bridge	Date Started	12/11/2000
Boring Location	Station 2118+41.5 Offset 79.0 Rt.	Date Completed	12/11/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 66.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0									
580.30	1.7	WATER 1.7								
577.30	4.7	BOULDERS (rip rap) 3.0								
574.80	7.2	Gray, SAND and GRAVEL, some clay, saturated, loose 2.5	1	SS	4.9-6.4	16-5-1 (6)	80			N/A
			2	SS	6.7-8.2	2-2-3 (5)	100			N/A
565.30	16.7	Brown, SILTY CLAY, highly elastic, saturated, soft 9.5	3	SS	11.7-13.2	2-1-2 (3)	100			0.5
560.30	21.7	Brown, CLAYEY SAND, layered, saturated, very loose 5.0	4	SS	16.7-18.2	2-2-2 (4)	100			N/A
555.30	26.7	Brown, SAND and GRAVEL, saturated, dense 5.0	5	SS	21.7-23.2	21-17-10 (27)	100			N/A
		Brown, SAND, little gravel, saturated, medium dense - dense	6	SS	26.7-28.2	7-8-9 (17)	33			N/A
			7	SS	31.7-33.2	5-6-7 (13)	27			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-37
Project	Blennerhassett Bridge	Date Started	12/11/2000
Boring Location	Station 2118+41.5 Offset 79.0 Rt.	Date Completed	12/11/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 66.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, little gravel, saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)* 19.0								
			8	SS	36.7-38.2	21-19-17 (36)	47			N/A
			9	SS	41.7-43.2	22-18-10 (28)	100			N/A
536.30	45.7									
		Gray, CLAYEY SILTSTONE, thinly bedded, highly to moderately weathered, very soft 2.8	10	SS	46.7-47.1	50/0.4	25			N/A
			1	NX	47.1-48.5		57	0	1	
533.50	48.5									
		Red, CLAYSTONE, highly weathered, very soft 1.2	2	NX	48.5-52.7		100	35	1-3	
532.30	49.7									
		Gray, SILTSTONE, few clayey laminations, moderately weathered, soft 1.9								
530.40	51.6									
		Gray, SANDSTONE, fine to very fine grained, medium bedded, limey inclusions, thin shale interbeds at 56.9' to 57.1' and 57.3' to 57.4', micaceous laminations, slightly weathered, medium hard	3	NX	52.7-57.7		100	94	2-3	
			4	NX	57.7-62.7		96	86	3	
		16.1								
			5	NX	62.7-67.7		100	96	3	
514.30	67.7									
		BORING COMPLETED @ 67.7'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-38
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2131+40 Offset 80.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 64.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
582.00	0.0	
581.80	0.2	0.2 WATER Gray, SILTY SAND, saturated, very loose
	20.5	
561.30	20.7	Brown, SAND and GRAVEL, trace clay, saturated, dense
	22.0	

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.2-1.7	0-0-0 (0)	100			N/A
2	SS	5.2-6.7	0-0-1 (1)	67			N/A
3	SS	10.2-11.7	2-1-2 (3)	100			N/A
4	SS	15.2-16.7	1-2-2 (4)	100			N/A
5	SS	20.2-21.7	2-13-16 (29)	100			N/A
6	SS	25.2-26.7	12-12-13 (25)	100			N/A
7	SS	30.2-31.7	12-19-13 (32)	100			N/A

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-38
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2131+40 Offset 80.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 64.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND and GRAVEL, trace clay, saturated, dense *(LAYER CONTINUED DESCRIPTION REPEATED)*		8	SS	35.2-36.7	5-5-4 (9)	100			N/A
				9	SS	40.2-41.7	9-12-16 (28)	100	0		N/A
539.30	42.7	Gray, SANDSTONE, fine grained, slightly limey, iron stained, vertical fracture at 44.7' to 45.7', 0.7' clay layer at 45.7', highly weathered and broken siltstone interbed at 48.8' to 49.0', slightly weathered, medium hard	7.4	10 1	SS NX	44.7-44.7 44.7-50.0	50/0.0	0 100	0 76	N/A 3	N/A
531.90	50.1										
531.30	50.7	Gray, SILTSTONE, thinly bedded, slightly weathered, soft	0.6	2	NX	50.0-54.7		100	76	3-1	
529.30	52.7	Gray, SANDSTONE, fine grained, slightly limey, slightly weathered, medium hard	2.0								
527.50	54.5	Gray and red, SILTY CLAYSTONE, moderately weathered, very soft	1.8								
526.70	55.3	Gray, SILTSTONE, slightly weathered, soft	0.8	3	NX	54.7-59.7		100	94	2-3	
		Gray, SANDSTONE, fine grained, few limey inclusions, micaceous laminations, slightly weathered, medium hard	5.6								
521.10	60.9			4	NX	59.7-64.7		100	92	3	
		Gray, SANDY SILTSTONE, few limey inclusions, slightly weathered, medium hard	3.8								
517.30	64.7										
		BORING COMPLETED @ 64.7'									

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used In Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-39
Project	Blennerhassett Bridge	Date Started	12/9/2000
Boring Location	Station 2131+40 Offset 80.0 Rt.	Date Completed	12/9/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 50.2 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		16.3								
565.73	16.3	Brown, SAND and GRAVEL, loose sand at 36.3' to 42.8', saturated, dense	1	SS	16.3-17.8	2-4-5 (9)	13			N/A
			2	SS	21.3-23.8	14-15-14 (29)	28			N/A
			3	SS	26.3-27.8	12-13-16 (29)	67			N/A
		27.5	4	SS	31.3-32.8	14-14-7 (21)	53			N/A

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-39
Project	Blennerhassett Bridge	Date Started	12/9/2000
Boring Location	Station 2131+40 Offset 80.0 Rt.	Date Completed	12/9/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 50.2 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND and GRAVEL, loose sand at 36.3' to 42.8', saturated, dense *(LAYER CONTINUED DESCRIPTION REPEATED)*		5	SS	36.3-37.8	5-6-5 (11)	7			N/A
				6	SS	41.3-42.8	5-6-5 (11)	0			N/A
538.23	43.8										
		Gray, SANDY SILTSTONE, few limey inclusions, slickensided claystone interbed at 44.8' to 45.0', 2" clay layers at 44.0', 45.9', and 46.3', moderately weathered, soft	2.5	7 1	SS NX	43.8-43.8 43.8-46.5	50/0.0	0 1000	0 59	N/A 2	N/A
535.73	46.3										
		Gray, SANDSTONE, fine grained, few limey inclusions, thin shale interbeds 48.9', 49.3', 50.2', 51.12', 51.7', and 52.9', slightly weathered, soft - medium hard	6.9	2	NX	46.5-51.5		100	88	3	
528.83	53.2			3	NX	51.5-56.5		100	94	3	
		Gray, SANDSTONE, medium grained, micaceous laminations, medium bedded, faintly weathered, medium hard	6.2	4	NX	56.5-61.5		100	94	3-2	
522.63	59.4										
		Gray, SILTSTONE, thinly bedded, slightly weathered, soft - medium hard	2.6	5	NX	61.5-66.5		100	96	1-4	
520.03	62.0										
		Red and gray, CLAYEY SILTSTONE, 45°slickensided joint at 62.9', slightly weathered, soft - very soft	2.5								
517.53	64.5										
		Gray, SANDSTONE, fine grained, faintly weathered, medium hard - hard	2.0								
515.53	66.5										
		BORING COMPLETED @ 66.5'									

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-40
Project	Blennerhassett Bridge	Date Started	12/9/2000
Boring Location	Station 2131+80 Offset 35.0 Lt.	Date Completed	12/9/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 38.1 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		18.2								
563.81	18.2	Brown, SAND and GRAVEL, few cobbles at 42.7' to 44.7', saturated, dense	1	SS	18.2-19.7	7-7-4 (11)	27			N/A
			2	SS	21.2-22.7	12-14-16 (30)	80			N/A
			3	SS	26.2-27.7	14-13-15 (28)	67			N/A
		26.5	4	SS	31.2-32.7	21-22-25 (47)	80			N/A

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-40
Project	Blennerhassett Bridge	Date Started	12/9/2000
Boring Location	Station 2131+80 Offset 35.0 Lt.	Date Completed	12/9/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 38.1 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND and GRAVEL, few cobbles at 42.7' to 44.7', saturated, dense *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			5	SS	36.2-37.7	10-8-6 (14)	33			N/A
			6	SS	41.2-42.7	0-0-5 (5)	67			N/A
537.31	44.7									
		Gray, SANDSTONE, fine grained, limey inclusions, micaceous laminations, thin clay interbeds at48.6' and 50.0', partial fracture at49.0' to 49.1', slightly weathered, medium hard	7	SS	44.7-44.7	50/0.0	0	0	N/A	N/A
			1	NX	44.7-46.3		88	63	2-3	
			2	NX	46.3-51.3		94	78	3	
		8.4	3	NX	51.3-56.3		100	84	3-1	
528.91	53.1									
		Red and gray, SILTY CLAYSTONE, highly weathered, very soft 1.6								
527.31	54.7									
		Gray, SILTSTONE, slightly weathered, medium hard 1.1								
526.21	55.8									
		Gray, SANDSTONE, fine grained, clay lamination at 55.8', slightly weathered, medium hard 0.5								
525.71	56.3	BORING COMPLETED @ 56.3'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-41
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2131+80 Offset 0.0 CL.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 73.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
	18.7									
563.28	18.7	Brown, SANDand GRAVEL, loose from 35.7' to 38.7', boulders from 28.4' to 31.2', saturated, medium dense - dense	1	SS	18.7-20.2	7-7-13 (20)	47			N/A
			2	SS	21.7-23.2	16-17-16 (33)	67			N/A
			3	SS	26.7-28.2	16-13-13 (26)	67			N/A
	25.0		4	SS	31.7-33.2	13-12-11 (23)	100			N/A

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-41
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2131+80 Offset 0.0 CL.	Date Completed	12/8/2000"
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 73.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SANDand GRAVEL, loose from 35.7' to 38.7', boulders from 28.4' to 31.2', saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			5	SS	36.7-38.2	5-4-4 (8)	80			N/A
			6	SS	41.7-43.2	8-7-8 (15)	0			N/A
538.28	43.7									
		Gray, SANDSTONE, very fine to fine grained, limey inclusions, 0.4" clay layer at 48.4', partial near vertical fracture at 47.3' to 47.8', slightly weathered, medium hard	7	SS	45.2-45.2	50/0.0	0	0	N/A	N/A
			1	NX	45.2-46.7		87	53	3	
			2	NX	46.7-51.7		100	88	3	
530.28	51.7	8.0								
		Gray and red, CLAYEY SILTSTONE, slickensided joint at 52.1' to 52.2', (45° from horizontal), highly weathered contact at 53.7', moderately weathered, very soft	3	NX	51.7-56.7		98	86	1-3	
528.28	53.7	2.0								
		Gray, SANDSTONE, fine grained, slightly limey, micaceous laminations, slightly weathered, medium hard	4	NX	56.7-61.7		98	98	3-2	
521.38	60.6	6.9								
		Gray, CLAYEY SILTSTONE, slickensided joint at 61.7' (45° from horizontal), slightly weathered, soft	5	NX	61.7-66.7		100	70	2-1	
519.28	62.7	2.1								
		Red and gray, SILTY CLAYSTONE, 45° slickensided joints throughout, 0.5" clay seam at contact at 66.4', slightly weathered, very soft								
515.58	66.4	3.7								
		Gray, SANDSTONE, fine grained, faintly weathered, medium hard	6	NX	66.7-71.7		98	86	3-1	
512.28	69.7	3.3								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-41
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2131+80 Offset 0.0 CL.	Date Completed	12/8/2000,
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 73.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
510.68	71.3	1.6 Red and gray, SILTY SHALE, fissile, 1.5" clay layer at 71.2', moderately weathered, very soft *(LAYER CONTINUED DESCRIPTION REPEATED)*								
508.48	73.5	2.2 Gray, SILTY CLAYSTONE, few 45° slickensided joints, few coal laminations, between 72.4' to 72.6', highly weathered, very soft	7	NX	71.7-76.7		100	60	1	
505.48	76.5	3.0 Red, CLAYSTONE, few slickensided surfaces at 35° from horizontal, moderatley weathered, very soft	8	NX	76.7-81.7		100	94	3	
501.78	80.2	3.7 Gray, SANDSTONE, very fine to fine grained, many limey inclusions, slightly weathered, medium hard								
498.18	83.8	3.6 Gray and red, CLAYEY SILTSTONE, limey inclusions, 45° slickensided surface at 81.4', slightly weathered, soft - very soft	9	NX	81.7-86.7		100	66	1	
495.38	86.6	2.8 Red, CLAYSTONE, few slickensided surfaces at 20° from horizontal, moderately weathered, very soft								
491.98	90.0	3.4 Gray, CLAYEY SILTSTONE, highly weathered zone at 88.6' to 88.8', clay seam at contact at 90.0', slightly weathered, very soft - soft	10	NX	86.7-91.7		98	74	1-3	
490.28	91.7	1.7 Gray, SANDSTONE, fine grained, few limey inclusions, faintly weathered, medium hard - hard								
		BORING COMPLETED @ 91.7'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-42
Project	Blennerhassett Bridge	Date Started	12/9/2000
Boring Location	Station 2131+80 Offset 35.0 Rt.	Date Completed	12/9/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 39.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		17.6								
564.43	17.6	Brown, SAND and GRAVEL, few cobbles, loose sand at 35.6' to 43.1', saturated, dense	1	SS	17.6-19.1	8-7-6 (13)	13			N/A
			2	SS	21.6-23.1	10-12-17 (29)	80			N/A
			3	SS	26.6-28.1	15-17-19 (36)	60			N/A
		25.6	4	SS	31.6-33.1	18-17-13 (30)	27			N/A

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-42
Project	Blennerhassett Bridge	Date Started	12/9/2000
Boring Location	Station 2131+80 Offset 35.0 Rt.	Date Completed	12/9/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 39.0 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND and GRAVEL, few cobbles, loose sand at 35.6' to 43.1', saturated, dense *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			5	SS	36.6-38.1	8-4-5 (9)	0			N/A
			6	SS	41.6-43.1	2-5-7 (12)	60			N/A
538.83	43.2									
		Gray, SANDSTONE, fine grained, horizontal gravel filled joint at 44.2', clay filled joint at 48.1' to 48.3', horizontal fracture at 47.8', few thin siltstone interbeds at 47.0' and 47.5', slightly to moderately weathered, medium hard	7	SS	43.2-43.2	50/0.0	0	0	N/A	N/A
			1	NX	43.2-46.6		100	71	3	
		8.1	2	NX	46.6-51.6		90	50	3	
530.73	51.3									
		Gray, CLAYEY SILTSTONE, moderately weathered, soft 1.6	3	NX	51.6-56.6		100	72	3-2	
529.13	52.9									
		Gray, SANDY SILTSTONE, few limey inclusions, slightly weathered, medium hard 2.0								
527.13	54.9									
		Gray, SANDSTONE, fine grained, limey inclusions, 20° fracture at 57.1', 2" clay layer at 56.3', slightly weathered, medium hard 1.7								
525.43	56.6	BORING COMPLETED @ 56.6'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-43
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2132+20 Offset 79.0 Lt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 45.8 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		20.4								
561.60	20.4	Brown, SAND and GRAVEL, trace clay, saturated, medium dense - dense	1	SS	20.4-21.9	13-11-10 (21)	47			N/A
			2	SS	26.2-27.7	16-13-14 (27)	80			N/A
		22.6	3	SS	31.2-32.7	20-20-5 (25)	40			N/A

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-43
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2132+20 Offset 79.0 Lt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 45.8 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND and GRAVEL, trace clay, saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*									
				4	SS	36.2-37.7	5-6-9 (15)	0			N/A
				5	SS	41.2-42.7	1-6-13 (19)	67			N/A
539.00	43.0										
		Gray, SANDSTONE, very fine to fine grained, medium bedded, limey inclusions, few thin siltstone interbeds, partial fracture at 49.1' to 49.3', slightly weathered, medium hard	6.3	6	SS	46.2-46.2	50/0.0	0	0	N/A	N/A
				1	NX	46.2-51.2		96	94	3-2	
532.70	49.3										
		Gray, SANDY SILTSTONE, thinly bedded, few limey inclusions, slightly weathered, soft - medium hard	1.9								
530.80	51.2										
		Gray, SANDSTONE, fine grained, medium bedded, micaceous laminations, slightly weathered, medium hard	2.1	2	NX	51.2-56.2		100	80	3-2	
528.70	53.3										
		Gray and red, SILTY CLAYSTONE, few slickensided surfaces (at 45°), moderatley weathered, very soft	1.8								
526.90	55.1										
		Gray, SILTSTONE, slightly weathered, soft	11.2	3	NX	56.2-61.2		100	86	2-3	
				4	NX	61.2-66.2		100	82	3-2	
517.80	64.2										
		Gray, SANDY SILTSTONE, thinly bedded, slightly weathered, soft	2.0 -2.1								
515.80	66.2										
515.70	66.3	Gray, SANDSTONE, fine grained, medium bedded, limey inclusions, broken at 57.8' to 58.1', and 59.8' to 60.0', few thin clayey laminations, slightly weathered, medium hard BORING COMPLETED @ 66.2'									

TEST BORING BLENN.GPJ HCN_WV.GDT 2/6/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-44
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2132+20 Offset 80.0 Rt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 37.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
582.00	0.0	WATER								
		29.1								
552.89	29.1	Brown, SANDY SILT, little clay, trace organics (leaves), saturated, loose	1	SS	29.1-30.6	5-5-5 (10)	20			N/A
		2.0								
550.89	31.1	Brown, SAND and GRAVEL, little clay, saturated, loose	2	SS	32.1-33.6	6-9-10 (19)	47			N/A

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs.	N/A ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-44
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2132+20 Offset 80.0 Rt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks	Actual drilled depth = 37.5 feet.	Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND and GRAVEL, little clay, saturated, loose *(LAYER CONTINUED DESCRIPTION REPEATED)*	13.2								
				3	SS	37.1-38.6	5-4-4 (8)	7			N/A
				4	SS	42.1-43.6	1-3-3 (6)	0			N/A
537.69	44.3										
		Gray, SANDSTONE, fine grained, limey inclusions, near vertical partial fracture from 48.4' to 49.0', slightly weathered, medium hard	4.9	5 1	SS NX	46.6-46.6 46.6-51.6	50/0.0	0 100	0 46	N/A 3-1	N/A
532.79	49.2										
		Gray, CLAYEY SILTSTONE, broken from 49.5' to 50.4', highly to moderately weathered, very soft	2.6								
530.19	51.8										
		Gray, SANDSTONE, very fine to fine grained, slightly weathered, medium hard	3.1	2	NX	51.6-56.6		100	86	2-3	
527.09	54.9										
		Gray, SANDSTONE, medium to coarse grained, medium bedded, micaceous laminations, slightly weathered, medium hard	5.9	3	NX	56.6-61.6		90	82	3-2	
521.19	60.8										
		Gray and red, SILTY SHALE, laminated, sandstone interbed at 62.1' to 62.8', slightly weathered, soft - very soft	4.7	4	NX	61.6-66.6		100	54	2-3	
516.49	65.5										
515.39	66.6	Gray, SANDSTONE, fine grained, claystone interbed at 67.1' to 67.6', 45° joint at 65.3' to 65.5', slightly weathered, hard	1.1								
		BORING COMPLETED @ 66.6'									

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

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912 Morris Street
Charleston WV 25301
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	N/A	ft.
At Completion	N/A	ft.
After	24 Hrs. N/A	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-45
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2138+80 Offset 60.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
591.40	0.0	Dark brown, LEAN CLAY, some silt, trace organics (roots), moist, medium stiff	1	SS	0.0-1.5	3-3-4 (7)	100			0.75
	5.0									
586.40	5.0	Brown, SAND, medium to coarse grained, some rounded gravel, wet - saturated, loose - medium dense	2	SS	5.0-6.5	4-4-5 (9)	100			N/A
			3	SS	10.0-11.5	4-6-5 (11)	100			N/A
			4	SS	15.0-16.5	3-6-7 (13)	67			N/A
			5	SS	20.0-21.5	3-3-3 (6)	100			N/A
			6	SS	25.0-26.5	4-3-4 (7)	67			N/A
	47.5		7	SS	30.0-31.5	4-4-3 (7)	100			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25	ft.	▽
At Completion	6.0	ft.	▽
After	24 Hrs.	7.5 ft.	▼
Water used in Drilling	52.5	ft.	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client: Michael Baker Jr., Inc.
Project: Blennerhassett Bridge
Boring Location: Station 2138+80 Offset 60.0 Lt.
Elev. Ref.: E.L. Robinson
Remarks:

Boring No.: B-45
Date Started: 12/7/2000
Date Completed: 12/7/2000
Order No.: 92143.005
Inspector: H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium to coarse grained, some rounded gravel, wet - saturated, loose - medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	5-5-6 (11)	100			N/A
			9	SS	40.0-41.5	5-6-9 (15)	100			N/A
			10	SS	45.0-46.5	4-7-17 (24)	67			N/A
			11	SS	50.0-51.5	6-7-13 (20)	100			N/A
538.90	52.5	Gray, SANDSTONE, fine grained (medium grained from 68.0' to 73.4'), limey inclusions, some thin siltstone interbeds, slightly weathered, medium hard	12 1	SS NX	52.5-52.5 52.5-56.0	50/0.0	0 94	0 71	N/A 3	N/A
			2	NX	56.0-61.0		100	78	3	
			3	NX	61.0-66.0		96	76	3	
	20.9		4	NX	66.0-71.0		100	94	3	

General Notes
Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations
Immediate: 25 ft. ▽
At Completion: 6.0 ft. ▼
After 24 Hrs. 7.5 ft. ▼
Water used in Drilling: 52.5 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/6/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-45
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2138+80 Offset 60.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
518.00	73.4	Gray, SANDSTONE, fine grained (medium grained from 68.0' to 73.4'), limey inclusions, some thin siltstone interbeds, slightly weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*	5	NX	71.0-76.0		100	86	3-2	
512.20	79.2	Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft 5.8	6	NX	76.0-81.0		88	54	2-3	
508.90	82.5	Gray, SANDSTONE, fine grained, limey inclusions, slightly weathered, medium hard 3.3	7	NX	81.0-82.0		100	53	3	
		BORING COMPLETED @ 82.5'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25	ft. ▽
At Completion	6.0	ft. ▼
After	24 Hrs. 7.5	ft. ▼
Water used in Drilling	52.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-46
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2138+80 Offset 60.0 Rt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
613.00	0.0	Brown, SANDY CLAY, and rock fragments (angular, gravel, sandstone), some silt, trace organics (roots), moist, stiff - very stiff	1	SS	0.0-1.5	6-8-12 (20)	60			N/A
			2	SS	5.0-5.7	9-50/0.2	71			N/A
			3	SS	10.0-11.5	8-11-10 (21)	100			N/A
	25.0		4	SS	15.0-16.5	4-5-5 (10)	100			N/A
			5	SS	20.0-21.5	6-5-4 (9)	100			N/A
588.00	25.0	Brown, SAND, medium to coarse grained, some rounded gravel, wet, medium dense	6	SS	25.0-26.5	5-6-9 (15)	67			N/A
			7	SS	30.0-31.5	4-3-4 (7)	100			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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Water Level Obserations

Immediate	50	ft. ▽
At Completion	19	ft. ▼
After	24 Hrs.	25.5 ft. ▼
Water used in Drilling		75.0 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-46
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2138+80 Offset 60.0 Rt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium to coarse grained, some rounded gravel, wet, medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	2-4-3 (7)	73			N/A
			9	SS	40.0-41.5	6-8-30 (38)	100			N/A
			10	SS	45.0-46.5	6-7-7 (14)	100			N/A
	50.0		11	SS	50.0-51.5	4-5-6 (11)	100			N/A
			12	SS	55.0-56.5	4-6-6 (12)	27			N/A
			13	SS	60.0-61.5	3-5-6 (11)	100			N/A
			14	SS	65.0-66.5	7-5-6 (11)	100			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	50	ft. ▽
At Completion	19	ft. ▼
After	24 Hrs.	25.5 ft. ▼
Water used in Drilling	75.0	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-46
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2138+80 Offset 60.0 Rt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, medium to coarse grained, some rounded gravel, wet, medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	15	SS	70.0-71.5	6-8-8 (16)	100			N/A
538.00	75.0									
		Gray, SANDSTONE, fine grained (medium grained from 90.0' to 96.7'), some thin clayey siltstone interbeds, limey inclusions, slightly weathered, medium hard	16	SS	75.0-75.0	50/0.0	0	0	N/A	N/A
			1	NX	75.0-76.0		100	100	3	
			2	NX	76.0-81.0		100	100	3	
			3	NX	81.0-86.0		100	68	3	
			4	NX	86.0-91.0		100	94	3	
			5	NX	91.0-96.0		98	98	3	
			6	NX	96.0-101.0		100	42	2	
516.30	96.7									
		Gray and reddish brown, CLAYEY SILTSTONE, laminated, fine grained sandstone interbed at 101.9' to 103.2', moderately weathered, soft	7	NX	101.0-105.0		100	90	2	
508.00	105.0									

21.7

8.3

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 50 ft.
At Completion: 19 ft.
After: 24 Hrs. 25.5 ft.
Water used in Drilling: 75.0 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-46
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2138+80 Offset 60.0 Rt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		BORING COMPLETED @ 105.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	50	ft.	▽
At Completion	19	ft.	▼
After	24 Hrs.	25.5 ft.	▼
Water used in Drilling	75.0	ft.	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-47
Project	Blennerhassett Bridge	Date Started	12/5/2000
Boring Location	Station 2139+30 Offset 0.0 CL.	Date Completed	12/5/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
589.80	0.0	Brown, CLAYEY GRAVEL, some sand, moist, medium dense	1	SS	0.0-1.5	2-4-13 (17)	73			N/A
	5.0									
584.80	5.0	Brown, SAND, medium grained, well graded, very moist, loose	2	SS	5.0-6.5	4-4-4 (8)	100			N/A
	10.0		3	SS	10.0-11.5	2-2-3 (5)	100			N/A
574.80	15.0	Brown, SAND, medium to coarse grained, little rock fragments (rounded gravel), poorly graded from15.0' to 20.0', very moist, loose	4	SS	15.0-16.5	4-5-5 (10)	100			N/A
	10.0		5	SS	20.0-21.5	3-6-4 (10)	100			N/A
564.80 ▽	25.0	Brown, SAND, coarse grained, little rock fragments (rounded gravel), poorly graded, saturated, medium dense	6	SS	25.0-26.5	3-4-4 (8)	100			N/A
	15.0		7	SS	30.0-31.5	4-4-7 (11)	67			N/A

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25.0	ft. ▽
At Completion	28.5	ft. ▽
After	24 Hrs. 14.0	ft. ▼
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-47
Project	Blennerhassett Bridge	Date Started	12/5/2000
Boring Location	Station 2139+30 Offset 0.0 CL.	Date Completed	12/5/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND, coarse grained, little rock fragments (rounded gravel), poorly graded, saturated, medium dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	4-6-9 (15)	100			N/A
549.80	40.0									
		Brown, SAND and GRAVEL, saturated, medium dense	9	SS	40.0-41.5	5-5-6 (11)	100			N/A
		9.0	10	SS	45.0-46.5	5-7-7 (14)	53			N/A
540.80	49.0									
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces, moderately to highly weathered, very soft	11	SS	49.5-49.5	50/0.0	0	0	N/A	N/A
		2.9	1	NX	49.5-51.0		80	40	1	
537.90	51.9		2	NX	51.0-56.0		100	100	1-3	
		Gray, SANDSTONE, fine grained, limey inclusions, slightly weathered, medium dense								
		6.1	3	NX	56.0-61.0		100	82	3-2	
531.80	58.0									
		Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft	4	NX	61.0-66.0		100	84	2-3	
		6.7								
525.10	64.7									
		Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	5	NX	66.0-71.0		100	88	3	
		6.3								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25.0	ft. ▽
At Completion	28.5	ft. ▼
After	24 Hrs. 14.0	ft. ▼
Water used in Drilling	49.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-47
Project	Blennerhassett Bridge	Date Started	12/5/2000
Boring Location	Station 2139+30 Offset 0.0 CL.	Date Completed	12/5/2000,
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
518.80	71.0	BORING COMPLETED @ 71.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	25.0	ft. ▽
At Completion	28.5	ft. ▼
After	24 Hrs. 14.0	ft. ▼
Water used in Drilling	49.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-48
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2141+20 Offset 60.0 Lt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
588.70	0.0	Brown, SILTY CLAY, moist, soft - medium stiff	1	SS	0.0-1.5	1-2-2 (4)	67			0.75
			2	SS	5.0-6.5	3-3-4 (7)	100			1.0
577.70	11.0	11.0	3	SS	10.0-11.5	3-6-7 (13)	100			N/A
		Brown, SAND, medium to coarse grained, some rock fragments (rounded gravel), trace clay, wet, medium dense	4	SS	15.0-16.5	7-8-7 (15)	100			N/A
569.20	19.5	8.5	5	SS	19.5-19.5	50/0.0	0	0	N/A	N/A
		Gray, CLAYEY SILTSTONE, many fine grained sandstone interbeds, slightly to moderately weathered, soft	1	NX	19.5-21.0		87	0	2	
			2	NX	21.0-26.0		80	44	2	
			3	NX	26.0-31.0		94	90	2	
		21.1	4	NX	31.0-36.0		98	76	2	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/6/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	15.0	ft.	▽
At Completion	7.0	ft.	▼
After	24 Hrs.	9.5 ft.	▼
Water used in Drilling	19.5	ft.	

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-48
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2141+20 Offset 60.0 Lt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, CLAYEY SILTSTONE, many fine grained sandstone interbeds, slightly to moderately weathered, soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	5	NX	36.0-41.0		66	52	2-1	
548.10	40.6									
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces, highly weathered, very soft - soft	6	NX	41.0-46.0		98	90	1-2	
		9.2	7	NX	46.0-51.0		90	90	1-2	
538.90	49.8									
537.70	51.0	1.2 Gray, CLAYEY SILTSTONE, moderately weathered, soft								
		BORING COMPLETED @ 51.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	15.0	ft. ▽
At Completion	7.0	ft. ▼
After	24 Hrs. 9.5	ft. ▼
Water used In Drilling	19.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-49
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2141+20 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
594.30	0.0	
593.80	0.5	0.5 TOPSOIL, moist, soft - medium stiff
		Reddish brown, LEAN CLAY, some silt, trace organics (roots), moist, medium stiff
		10.5
583.30	11.0	
		Brown and reddish brown, CLAYEY SAND, moist - very moist, medium dense - dense
		10.0
573.30	21.0	
		Brown and gray, SAND and GRAVEL, moist, medium dense - soft
		4.0
569.30	25.0	
		Gray, CLAYEY SILTSTONE, (carbonaceous layer from 26.0' to 27.7'), vertical fracture at 36.7' to 37.6', highly fractured at 41.5' to 42.0', limey, highly to moderately weathered, extremely soft - soft

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	4-5-5 (10)	100			0.75
1	ST	2.0-4.0		55			
2	SS	5.0-6.5	5-6-6 (12)	100			0.75
3	SS	10.0-11.5	10-16-12 (28)	100			1.0
4	SS	15.0-16.5	5-6-7 (13)	67			N/A
5	SS	20.0-21.5	16-20-22 (42)	33			N/A
6	SS	25.0-25.0	50/0.0	0	0	N/A	N/A
1	NX	25.0-26.5		90	0	0-1	
2	NX	26.5-31.5		100	54	0-1	
3	NX	31.5-36.5		100	58	0-1	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	16.0	ft. ▽
At Completion	11.6	ft. ▼
After	24 Hrs. 13.5	ft. ▼
Water used in Drilling	25.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-49
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2141+20 Offset 60.0 Rt.	Date Completed	12/8/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		21.0 Gray, CLAYEY SILTSTONE, (carbonaceous layer from 26.0' to 27.7'), vertical fracture at 36.7' to 37.6', highly fractured at 41.5' to 42.0', limey, highly to moderately weathered, extremely soft - soft *(LAYER CONTINUED DESCRIPTION REPEATED)*								
548.30	46.0		4	NX	36.5-41.5		82	54	0-1	
			5	NX	41.5-46.5		74	58	0-1	
		Red and gray, CLAYSTONE, slightly weathered, very soft	6	NX	46.5-51.5		92	80	1	
		9.5	7	NX	51.5-56.5		100	80	1	
538.80	55.5	Gray, SANDSTONE, slightly weathered, medium hard	8	NX	56.5-61.5		100	100	3	
		6.0								
532.80	61.5	BORING COMPLETED @ 61.5'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	16.0	ft. ▽
At Completion	11.6	ft. ▽
After	24 Hrs.	13.5 ft. ▽
Water used in Drilling	25.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-50
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2141+50 Offset 60.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
591.42	0.0	
590.92	0.5	0.5 TOPSOIL
		Brown, LEAN CLAY, some silt, moist, stiff
		10.5
580.42	11.0	
		Yellowish brown, LEAN CLAY, and gravel, moist, very stiff
		4.0
576.42	15.0	
		Gray, SILTY SHALE, 60° at 19.0', highly weathered, very soft
		5.0
571.42	20.0	
		Black, COAL, with thin carbonaceous shale interbeds, highly weathered, very soft
		1.6
569.82	21.6	
		Dark gray, SHALE, silty, moderately weathered, soft
		3.2
566.62	24.8	
		Black, SHALE, carbonaceous, silty, highly weathered, extremely soft
		1.6
565.02	26.4	
		Gray, CLAYEY SILTSTONE, moderately weathered, soft
		1.6
563.42	28.0	
		Gray, LIMESTONE (possible inclusion), highly fractured, moderately weathered, medium hard
		3.5
559.92	31.5	
		Gray, CLAYEY SILTSTONE, moderately weathered, soft

SAMPLE

NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	3-5-6 (11)	100			1.0
2	SS	5.0-6.5	3-4-5 (9)	67			1.0
3	SS	10.0-11.5	8-9-21 (30)	13			1.0
4	SS	14.9-15.0	50/0.0	0	0	N/A	N/A
1	NX	15.0-16.0		70	0	1	
2	NX	16.0-21.0		94	46	1	
3	NX	21.0-26.0		100	60	0-2	
4	NX	26.0-31.0		92	70	2	
5	NX	31.0-36.0		98	80	2	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.	
At Completion	9.0	ft.	▽
After	24 Hrs.	13.0 ft.	▽
Water used in Drilling	15.0	ft.	

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-50
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2141+50 Offset 60.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, CLAYEY SILTSTONE, moderately weathered, soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	6	NX	36.0-41.0		100	72	2	
		11.0	7	NX	41.0-46.0		100	86	2	
548.92	42.5	Red and gray, SILTY CLAYSTONE, slickensided surfaces (25°) at 31.3', 32.0', moderately weathered, soft	8	NX	46.0-51.0		100	100	2-3	
		13.0	9	NX	51.0-56.0		100	100	2-3	
535.92	55.5	Gray, SANDSTONE, fine grained, slightly weathered, medium hard	10	NX	56.0-61.0		100	100	3	
		5.5								
530.42	61.0	Gray, SILTSTONE, limey inclusions, thinly bedded, fractured zones from 65.0' to 66.0', moderately weathered, soft	11	NX	61.0-66.0		92	64	3	
		5.0								
525.42	66.0	Gray, SANDSTONE, fine grained, slightly weathered, medium hard	12	NX	66.0-71.0		94	88	3	
523.92	67.5	1.5								
523.22	68.2	0.7 Gray, SILTSTONE, thinly bedded, fractured from 69.0' to 69.3', moderately weathered, soft								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion	9.0	ft. ▽
After	24 Hrs. 13.0	ft. ▽
Water used in Drilling	15.0	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-50
Project	Blennerhassett Bridge	Date Started	12/7/2000
Boring Location	Station 2141+50 Offset 60.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SANDSTONE, medium grained, limey, micaceous, medium bedded, moderately								
	6.8	weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*	13	NX	71.0-75.0		125	113	3	
516.42	75.0	BORING COMPLETED @ 75.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion	9.0	ft. ▼
After 24 Hrs.	13.0	ft. ▼
Water used in Drilling	15.0	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-51
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2141+50 Offset 60.0 Rt.	Date Completed	12/9/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
597.10	0.0	
596.60	0.5	0.5 TOPSOIL
		Reddish brown, LEAN CLAY, trace silt, trace organics (roots), trace rock fragments, moist, medium stiff
		10.5
586.10	11.0	
		Reddish brown, SANDY CLAY, some silt, trace rock fragments, moist, stiff
		5.0
581.10 ▽	16.0	
580.10	17.0	1.0 Brown, CLAYEY SAND, trace gravel (rounded), wet, dense
		Gray, SANDY SHALE, highly to completely weathered, extremely soft - very soft
		6.0
574.10	23.0	
		Dark gray and black, SHALE, highly to completely weathered, extremely soft - very soft
		5.0
569.10	28.0	
		Gray, SANDSTONE, fine grained, moderately weathered, medium hard
		2.3
566.80	30.3	
		Dark gray and black, SHALE, highly weathered, very soft
		1.7
565.10	32.0	
		Gray, CLAYEY SILTSTONE, slickensided surface (30°) at 32.7', laminated, moderately weathered, soft

SAMPLE

NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	3-4-4 (8)	100			0.75
2	SS	5.0-6.5	6-7-7 (14)	100			0.75
3	SS	10.0-11.5	8-12-20 (32)	100			1.0
4	SS	15.0-16.5	6-8-12 (20)	100			1.5
5	SS	17.0-17.5	50/0.5	0			N/A
1	NX	17.5-21.5		125	78	0	
2	NX	21.5-26.5		78	32	0-1	
3	NX	26.5-31.5		90	62	0-3	
4	NX	31.5-36.5		100	52	0-2	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	16.0	ft. ▽
At Completion	14.5	ft. ▼
After	24 Hrs. 15.0	ft. ▼
Water used In Drilling	17.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-51
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2141+50 Offset 60.0 Rt.	Date Completed	12/9/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, CLAYEY SILTSTONE, slickensided surface (30°) at 32.7', laminated, moderately weathered, soft *(LAYER CONTINUED' DESCRIPTION REPEATED)*								
		14.5	5	NX	36.5-41.5		100	88	2	
			6	NX	41.5-46.5		96	64	2	
550.60	46.5	Gray, SHALE, highly weathered, extremely soft	7	NX	46.5-51.5		94	46	2-1	
		2.5								
548.10	49.0	Red and gray mottled, CLAYSTONE, limey inclusions, slickensided surfaces (45°) at 50.9', 49.6', and 49.1', moderately weathered, very soft	8	NX	51.5-56.5		100	66	1	
		10.5	9	NX	56.5-61.5		100	92	1-2	
537.60	59.5	Gray, SANDY SILTSTONE, limey inclusions, moderately weathered, soft - medium hard	10	NX	61.5-66.5		100	86	2-3	
		12.0	11	NX	66.5-71.5		100	82	2-3	

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	16.0	ft. ▽
At Completion	14.5	ft. ▼
After	24 Hrs. 15.0	ft. ▼
Water used in Drilling	17.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-51
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2141+50 Offset 60.0 Rt.	Date Completed	12/9/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
525.60	71.5	Gray, SANDY SILTSTONE, limey inclusions, moderately weathered, soft - medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			12	NX	71.5-76.5		100	100	3	
		Gray, SANDSTONE, medium grained, micaceous laminations, slightly weathered, medium hard								
	7.0									
			13	NX	76.5-78.5		250	250	3	
518.60	78.5	BORING COMPLETED @ 78.5'								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	16.0	ft. ▽
At Completion	14.5	ft. ▽
After	24 Hrs. 15.0	ft. ▽
Water used in Drilling	17.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-52
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2142+65 Offset 45.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
608.60	0.0	Brown, lean clay (FILL), some silt, trace organics (coal fragments), moist, soft	1	SS	0.0-1.5	1-1-1 (2)	33			0.5
		10.0	2	SS	5.0-6.5	2-2-2 (4)	20			0.5
598.60	10.0	Brown, SILTY CLAY, moist - wet, soft	3	SS	10.0-11.5	2-2-2 (4)	87			0.5
		5.0								
593.60	15.0	Reddish brown, SILTY CLAYSTONE, residual soil, extremely soft	4	SS	15.0-16.5	3-7-7 (14)	100			1.25
		5.0								
588.60	20.0	Reddish brown, SILTY CLAYSTONE, highly weathered, very soft	5	SS	20.0-21.0	37-50-50/0.0	120			N/A
		2.1	1	NX	21.0-26.5		94	80	1-2	
586.50	22.1	Gray, CLAYEY SILTSTONE, moderately weathered, soft								
585.60	23.0	0.9								
		Gray, SANDY SILTSTONE, slightly weathered, medium hard								
		4.1								
581.50	27.1	Gray, CLAYEY SILTSTONE, laminated, highly weathered, soft	2	NX	26.5-31.5		100	60	2	
580.40	28.2	1.1								
		Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard								
		4.6								
575.80	32.8	Gray, SANDY SILTSTONE, broken, moderately weathered, soft - medium hard	3	NX	31.5-36.5		100	44	2	
573.60	35.0	2.2								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion	7.5	ft. ▽
After	24 Hrs.	NA ft.
Water used In Drilling	21.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-52
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2142+65 Offset 45.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	2.4								
571.20	37.4			4	NX	36.5-41.5		90	44	2	
		Gray, CLAYEY SILTSTONE, moderately weathered, soft	3.5								
567.70	40.9										
567.10	41.5	Dark gray to black, SHALE, carbonaceous, highly weathered, very soft	0.6								
565.90	42.7	Gray, SANDY SILTSTONE, slightly weathered, medium hard	1.2	5	NX	41.5-46.5		100	42	2	
565.10	43.5	Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft	0.8								
563.90	44.7	Dark gray to black, SHALE, carbonaceous, highly weathered, very soft	1.2								
560.90	47.7	Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft	3.0	6	NX	46.5-51.5		100	90	2	
557.80	50.8	Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	3.1								
554.40	54.2	Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft	3.4	7	NX	51.5-56.5		100	86	2	
549.90	58.7	Gray, SANDY SILTSTONE, slightly weathered, medium dense	4.5	8	NX	56.5-61.5		96	72	2	
547.10	61.5	Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	2.8								
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces, highly weathered, very soft	10.8	9	NX	61.5-66.5		50	10	1	
				10	NX	66.5-71.5		90	36	1	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	Dry	ft.
At Completion	7.5	ft. ▽
After	24 Hrs. NA	ft.
Water used in Drilling	21.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-52
Project	Blennerhassett Bridge	Date Started	12/6/2000
Boring Location	Station 2142+65 Offset 45.0 Lt.	Date Completed	12/7/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
536.30	72.3	Reddish brown, SILTY CLAYSTONE, slickensided surfaces, highly weathered, very soft *(LAYER CONTINUED DESCRIPTION REPEATED)*		11	NX	71.5-76.5		100	88	1-3	
		Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	11.9	12	NX	76.5-81.5		100	88	3	
524.40	84.2			13	NX	81.5-86.5		100	96	3	
		Gray, SANDSTONE, medium to coarse grained, slightly weathered, medium hard	8.6	14	NX	86.5-91.5		100	100	3	
515.80	92.8			15	NX	91.5-96.5		100	100	3	
		Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	3.7								
512.10	96.5			16	NX	96.5-101.5		100	78	3	
		Gray, SANDY SILTSTONE, moderately weathered, medium hard	5.0								
507.10	101.5										
		BORING COMPLETED @ 101.5'									

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	Dry	ft.
At Completion	7.5	ft. ▽
After	24 Hrs.	NA ft.
Water used in Drilling	21.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-53
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2142+64 Offset 54.0 Rt.	Date Completed	12/11/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
614.40	0.0	Brown, LEAN CLAY, some silt, some rock fragments, moist, stiff	1	SS	0.0-1.5	3-5-8 (13)	100			1.25
		5.0								
609.40	5.0		1	ST	4.0-6.0		100			
		Brown, SILTY CLAY, very moist, medium stiff	2	SS	5.0-6.5	3-4-4 (8)	100			0.75
		5.0								
604.40	10.0									
		Reddish brown, SILTY CLAYSTONE, residual soil, extremely soft	3	SS	10.0-11.4	10-16-50/0.4	100			N/A
		5.6								
598.80	15.6		4	SS	15.0-15.6	17-50/0.1	100			N/A
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft	1	NX	15.6-20.0		82	0	0	
			2	NX	20.0-25.0		100	0	0	
		14.2								
			3	NX	25.0-30.0		100	90	2	
584.60	29.8									
		Gray, SANDY SILTSTONE, thinly bedded, slightly weathered, medium hard	4	NX	30.0-35.0		100	88	2	
		1.9								
582.70	31.7	Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft								
		2.1								
580.60	33.8	Gray, SANDSTONE, fine to medium grained,								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	15.6	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-53
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2142+64 Offset 54.0 Rt.	Date Completed	12/11/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
578.30	36.1	2.3 slightly to moderately weathered, medium hard		5	NX	35.0-40.0		100	60	2	
575.90	38.5	Gray, CLAYEY SILTSTONE, few fine grained sandstone laminations, laminated, moderately weathered, soft	2.4								
573.70	40.7	Gray, SANDSTONE, fine to medium grained, some dark silty laminations, slightly weathered, medium hard	2.2	6	NX	40.0-45.0		100	78	1-2	
567.50	46.9	Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft	6.2								
566.70	47.7	Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	0.8	7	NX	45.0-50.0		86	46	1-2	
564.70	49.7	Dark gray, SILTY SHALE, fissile, carbonaceous, highly weathered, very soft	2.0								
559.30	55.1	Gray, SANDY SILTSTONE, vertical fracture50.7' to 51.0', moderately weathered, medium hard	5.4	8	NX	50.0-55.0		100	76	2	
551.90	62.5	Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft	7.4	9	NX	55.0-60.0		100	80	2	
				10	NX	60.0-65.0		100	78	2	
549.60	64.8	Gray, SANDSTONE, fine to medium grained, some dark silty laminations, slightly weathered, medium hard	2.3								
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft		11	NX	65.0-70.0		100	66	1	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	15.6	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-53
Project	Blennerhassett Bridge	Date Started	12/8/2000
Boring Location	Station 2142+64 Offset 54.0 Rt.	Date Completed	12/11/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness		SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces (45°), highly weathered, very soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	11.6	12	NX	70.0-75.0		78	48	0-1	
538.00	76.4			13	NX	75.0-80.0		100	60	1-3	
		Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	5.1								
532.90	81.5			14	NX	80.0-85.0		100	100	2-3	
531.40	83.0	Gray, SANDY SILTSTONE, slightly wearthered, medium hard	1.5								
529.40	85.0	Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft	2.0								
528.20	86.2	Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	1.2	15	NX	85.0-90.0		100	94	2-3	
527.40	87.0	Gray, CLAYEY SILTSTONE, laminated, moderately weathered, soft	0.8								
525.50	88.9	Gray, SANDSTONE, fine to medium grained, slightly weathered, medium hard	1.9								
		Gray, SANDSTONE, medium to coarse grained, slightly weathered, medium hard	6.1	16	NX	90.0-95.0		100	100	3	
519.40	95.0										
		BORING COMPLETED @ 95.0'									

TEST BORING BLENN.GPJ HCN_WV.GDT 2/8/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

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Water Level Observations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	15.6	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-54
Project	Blennerhassett Bridge	Date Started	10/23/2001
Boring Location		Date Completed	10/23/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
0.00	0.0									
-0.30	0.3	0.3 TOPSOIL Brown, fine SANDY SILT, trace clay, trace organics (root hairs), moist, dense	1	SS	0.0-1.5	6-6-5 (11)	100			
			2	SS	5.0-6.5	6-6-6 (12)	100			
		14.7								
			3	SS	10.0-11.5	8-38-24 (62)	67			
-15.00	15.0									
		Brown, medium to coarse SAND, some gravel and rock fragments, trace silt, trace cobbles/boulders, moist - saturated, dense - very dense	4	SS	15.0-16.5	8-36-24 (60)	40			
			5	SS	20.0-21.5	18-34-28 (62)	33			
			6	SS	25.0-26.5	34-50/0.2	0			
			7	SS	30.0-31.5	28-34-50/0.2	80			
		35.0								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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Water Level Obserations

Immediate	37	ft. ▽
At Completion	35.1	ft. ▼
After	24 Hrs.	NA ft.
Water used In Drilling		NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-54
Project	Blennerhassett Bridge	Date Started	10/23/2001
Boring Location		Date Completed	10/23/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, medium to coarse SAND, some gravel and rock fragments, trace silt, trace cobbles/boulders, moist - saturated, dense - very dense ***(LAYER CONTINUED DESCRIPTION REPEATED)***	8	SS	35.0-36.5	34-32-50/0.2	67			
			9	SS	40.0-41.5	15-17-21 (38)	100			
			10	SS	45.0-46.5	11-18-23 (41)	100			
-50.00	50.0									
		Brown, medium to coarse grained SAND and GRAVEL, trace boulders, saturated, medium dense - dense	11	SS	50.0-51.5	11-17-17 (34)	100			
			12	SS	55.0-56.5	16-12-13 (25)	100			
			13	SS	60.0-61.5	12-13-16 (29)	100			
			14	SS	65.0-66.5	13-12-12 (24)	100			
	35.0									

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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Water Level Obserations

Immediate	37	ft. ▽
At Completion	35.1	ft. ▼
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-54
Project	Blennerhassett Bridge	Date Started	10/23/2001
Boring Location		Date Completed	10/23/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, medium to coarse grained SAND and GRAVEL, trace boulders, saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	15	SS	70.0-71.5	15-15-15 (30)	80			
			16	SS	75.0-76.5	14-14-16 (30)	80			
			17	SS	80.0-80.5	50/0.5	60			
			1	NX	80.5-85.0		7	0	3	
-85.00	85.0									
-85.30	85.3	0.3 Reddish brown, SILTY CLAYSTONE, thinly bedded, moderately weathered, near vertical slickensided surfaces, soft	2	NX	85.0-90.0		100	88	3-0	
		Gray, fine grained SILTY SANDSTONE, medium to thinly bedded, slightly weathered, completely weathered, gray claystone at 90.2'-90.8' and 93.9'-94.3', medium hard - extremely soft								
		9.7	3	NX	90.0-95.0		100	60	3-0	
-95.00	95.0									
		BORING COMPLETED @ 95.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 37 ft. ▽
At Completion: 35.1 ft. ▼
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-55
Project	Blennerhassett Bridge	Date Started	10/25/2001
Boring Location	Station 2103+76 Offset 50.0 Rt.	Date Completed	10/29/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
623.51	0.0	
623.01	0.5	0.5 TOPSOIL
		Light brown, SILTY CLAY, trace organics (roots), moist, very stiff
		3.5
619.51	4.0	
		Light brown, SILT, some clay, trace fine sand, moist - very moist, loose
		3.0
616.51	7.0	
		Light brown, fine SILTY SAND, moist, loose
		9.0
607.51	16.0	
		Brown, medium to coarse grained SAND, few light brown fine silty sand laminations, moist, medium dense - dense
		20.0

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	3-3-5 (8)	100			
1	ST	2.0-4.0		100			
2	SS	5.0-6.5	4-5-6 (11)	80			
3	SS	10.0-11.5	2-3-4 (7)	93			
4	SS	15.0-16.5	6-9-9 (18)	33			
5	SS	20.0-21.5	9-12-14 (26)	100			
6	SS	25.0-26.5	12-13-15 (28)	100			
7	SS	30.0-31.5	3-11-19 (30)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS/ST

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	40	ft. ▽
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-55
Project	Blennerhassett Bridge	Date Started	10/25/2001
Boring Location	Station 2103+76 Offset 50.0 Rt.	Date Completed	10/29/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
587.51	36.0	Brown, medium to coarse grained SAND, trace rounded river gravel, moist - saturated, medium dense, saturated below 40.0'
	48.0	

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
8	SS	35.0-36.5	6-15-21 (36)	100			
9	SS	40.0-41.5	3-9-11 (20)	100			
10	SS	45.0-46.5	5-10-13 (23)	100			
11	SS	50.0-51.5	3-8-10 (18)	100			
12	SS	55.0-56.5	5-9-12 (21)	100			
13	SS	60.0-61.5	6-10-14 (24)	100			
14	SS	65.0-66.5	9-13-14 (27)	100			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS/ST

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-55
Project	Blennerhassett Bridge	Date Started	10/25/2001
Boring Location	Station 2103+76 Offset 50.0 Rt.	Date Completed	10/29/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, medium to coarse grained SAND, trace rounded river gravel, moist - saturated, medium dense, saturated below 40.0' *(LAYER CONTINUED DESCRIPTION REPEATED)*	15	SS	70.0-71.5	10-11-21 (32)	100			
			16	SS	75.0-76.5	11-11-14 (25)	100			
			17	SS	80.0-81.5	13-13-15 (28)	100			
539.51	84.0									
		Gray, SANDY SILTSTONE, limey inclusions, medium bedded, slightly to faintly weathered, medium hard	18	SS	84.0-84.0	50/0.0	0	30	3	
		4.8 RQD 33%	1	NX	84.0-88.0		43			
534.71	88.8		2	NX	88.0-93.0		100	40	0-3	
533.01	90.5	1.7 RQD 0% Reddish brown, SILTY CLAYSTONE, slickensided at 45° from horizontal, medium bedded, completely weathered, extremely soft								
		Gray, fine grained SILTY SANDSTONE, limey inclusions, medium bedded, slightly weathered, horizontal fracture at91.6'-92.1' and 54.3'-55.0', silty claystone layer 92.0'-92.5' (few shale (approximately 1cm2) slickensided surfaces at various angles), medium hard	3	NX	93.0-98.0		100	100	3-1	
		8.1 RQD 70%								
525.21	98.3									
		1.8 RQD 39% Gray, SILTY CLAYSTONE, limey inclusions, medium bedded, moderately to highly weathered, few small slickenside surfaces (approximately 1cm2) at various angles, soft - very soft	4	NX	98.0-103.0		100	100	1-3	
523.41	100.1									
		5.0 RQD 90% Gray, fine to medium grained SANDSTONE, medium bedded, slightly weathered, medium hard	5	NX	103.0-108.0		100	100	3	
518.41	105.1									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS/ST

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-55
Project	Blennerhassett Bridge	Date Started	10/25/2001
Boring Location	Station 2103+76 Offset 50.0 Rt.	Date Completed	10/29/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
515.51	108.0	2.9 RQD 86% Gray, SANDY SILTSTONE, medium bedded, faintly weathered, medium hard								
		BORING COMPLETED @ 108.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS/ST

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-56
Project	Blennerhassett Bridge	Date Started	10/30/2001
Boring Location	Station 2103+76 Offset 145.0 Rt.	Date Completed	10/31/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
0.00	0.0									
-0.60	0.6	0.6 TOPSOIL	1	SS	0.0-1.5	2-2-2 (4)	100			2.75
		Brown, SILTY CLAY, trace fine sand, moist, very stiff								
		4.4								
-5.00	5.0									
		Brown, SILT, some clay, moist, loose	2	SS	5.0-6.5	2-3-2 (5)	100			1.25
		5.0								
-10.00	10.0									
		Brown, fine SILTY SAND, moist, medium dense	3	SS	10.0-11.5	7-7-7 (14)	100			
		5.0								
-15.00	15.0									
		Brown, medium to coarse grained SAND, trace rounded river gravel, few brown fine silty sand laminations, moist - saturated, medium dense - dense, saturated below 40.0'	4	SS	15.0-16.5	6-6-6 (12)	93			
			5	SS	20.0-21.5	13-17-21 (38)	100			
			6	SS	25.0-26.5	13-15-21 (36)	100			
			7	SS	30.0-31.5	10-20-30 (50)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	40	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-56
Project	Blennerhassett Bridge	Date Started	10/30/2001
Boring Location	Station 2103+76 Offset 145.0 Rt.	Date Completed	10/31/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		45.0 Brown, medium to coarse grained SAND, trace rounded river gravel, few brown fine silty sand laminations, moist - saturated, medium dense - dense, saturated below 40.0' *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	4-6-7 (13)	20			
			9	SS	40.0-41.5	3-4-6 (10)	100			
			10	SS	45.0-46.5	3-5-4 (9)	100			
			11	SS	50.0-51.5	5-5-6 (11)	100			
			12	SS	55.0-56.5	4-5-6 (11)	100			
-60.00	60.0	Brown, fine to coarse SAND, saturated, dense	13	SS	60.0-61.5	5-5-6 (11)	100			
			14	SS	65.0-66.5	7-6-6 (12)	100			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-56
Project	Blennerhassett Bridge	Date Started	10/30/2001
Boring Location	Station 2103+76 Offset 145.0 Rt.	Date Completed	10/31/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, fine to coarse SAND, saturated, dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	15	SS	70.0-71.5	17-18-17 (35)	100			
		25.0								
			16	SS	75.0-76.5	18-21-22 (43)	100			
			17	SS	80.0-81.5	23-32-30 (62)	67			
-85.00	85.0									
-86.10	86.1	1.1 RQD 0% Reddish brown, CLAYSTONE, medium bedded, highly weathered, few small (1cm2) slickensided surfaces at various angles, extremely soft	18	SS	85.0-85.2	50/0.2	100	29	0-3	
			1	NX	85.2-90.0		104			
-88.30	88.3	2.2 Reddish brown to gray, SILTSTONE, medium bedded, moderately to slightly weathered, medium hard, color changes to gray at 86.7'								
-90.00	90.0	1.7 RQD 0% Reddish brown, SILTY CLAYSTONE, medium bedded, highly weathered, few small (1cm2) slickensided surfaces at various angles, very soft - extremely soft								
			2	NX	90.0-95.0		100	90	3	
-95.20	95.2	5.2 RQD 62% Gray, SANDY SILTSTONE, limey inclusions, medium bedded, slightly weathered, fractures at 55° from horizontal at 90.4'-90.7', medium hard								
-97.20	97.2	2.0 RQD 85% Gray, medium grained SANDSTONE, limey, medium bedded, slightly weathered, medium hard	3	NX	95.0-100.0		100	88	3	
-100.00	100.0	2.8 RQD 29% Gray, CLAYEY SILTSTONE, medium bedded, slightly weathered, limey inclusions, slickensided surfaces at 20°-50° from horizontal, medium hard								
-105.00	105.0	5.0 RQD 100% Gray, SANDY SILTSTONE, limey inclusions, thick bedded, faintly weathered, medium hard	4	NX	100.0-105.0		100	100	3	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	40	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-56
Project	Blennerhassett Bridge	Date Started	10/30/2001
Boring Location	Station 2103+76 Offset 145.0 Rt.	Date Completed	10/31/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		BORING COMPLETED @ 105.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-57
Project	Blennerhassett Bridge	Date Started	10/29/2001
Boring Location	Station 2103+90 Offset 98.0 Rt.	Date Completed	10/30/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
623.77	0.0	
623.17	0.6	0.6 TOPSOIL
		Brown, SILTY CLAY, trace organics (roots), moist, very soft
		3.4
619.77	4.0	
		Brown, SILT, some clay, moist, loose
		4.0
615.77	8.0	
		Brown, fine SILTY SAND, very moist - wet, medium dense - loose
		6.5
609.27	14.5	
608.77	15.0	0.5 Brown, medium to coarse grained SAND, trace rounded river gravel, few laminations, moist - saturated, medium dense - dense, saturated below 40.0'

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	3-3-5 (8)	100			
2	SS	5.0-6.5	3-5-6 (11)	100			
1	ST	7.0-9.0		75			
3	SS	10.0-11.5	7-7-6 (13)	100			
2	ST	12.0-14.0					
4	SS	15.0-16.5	9-13-19 (32)	67			
5	SS	20.0-21.5	10-12-14 (26)	100			
6	SS	25.0-26.5	6-9-10 (19)	67			
7	SS	30.0-31.5	16-26-32 (58)	87			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS/ST

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-57
Project	Blennerhassett Bridge	Date Started	10/29/2001
Boring Location	Station 2103+90 Offset 98.0 Rt.	Date Completed	10/30/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
			8	SS	35.0-36.5	3-9-10 (19)	100			
			9	SS	40.0-41.5	4-6-10 (16)	100			
			10	SS	45.0-46.5	4-6-9 (15)	100			
			11	SS	50.0-51.5	6-7-8 (15)	100			
			12	SS	55.0-56.5	4-7-9 (16)	100			
			13	SS	60.0-61.5	10-11-10 (21)	100			
			14	SS	65.0-66.5	13-13-10 (23)	100			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS/ST

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-57
Project	Blennerhassett Bridge	Date Started	10/29/2001
Boring Location	Station 2103+90 Offset 98.0 Rt.	Date Completed	10/30/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
			15	SS	70.0-71.5	14-17-14 (31)	100			
		Brown, fine to coarse SAND, trace cobbles, saturated, dense	16	SS	75.0-76.5	15-15-16 (31)	100			
		11.0	17	SS	80.0-81.5	17-17-15 (32)	100			
537.77	86.0		18	SS	85.0-86.5	50/0.0	0			
		2.0 RQD 75% Gray, SANDY SILTSTONE, limey inclusions, medium bedded, slightly weathered, medium hard	2	NX	86.0-91.0		100	58		
535.77	88.0		1	NX	86.5-86.0		-20	0		
534.77	89.0	1.0 RQD 0% Reddish brown, SILTY CLAYSTONE, medium bedded, completely weathered, slickensided surfaces at 50° from horizontal, spaced 0.5' apart, extremely soft								
		Gray, fine grained SILTY SANDSTONE, limey inclusions, medium bedded, slightly weathered, silty claystone layer at 92.6'-93.3' and 98.6'-99.3' (slickensided surfaces at 50° from horizontal), medium hard	3	NX	91.0-96.0		100	82		
		17.0 RQD 67%	4	NX	96.0-101.0		100	94		
			5	NX	101.0-100.0		-500	-470		

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS/ST

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-57
Project	Blennerhassett Bridge	Date Started	10/29/2001
Boring Location	Station 2103+90 Offset 98.0 Rt.	Date Completed	10/30/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
517.77	106.0	BORING COMPLETED @ 106.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS/ST

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912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-58
Project	Blennerhassett Bridge	Date Started	10/24/2001
Boring Location	Station 2103+95 Offset 145.0 Lt.	Date Completed	10/25/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
624.23	0.0	0.0 TOPSOIL	1	SS	0.0-1.5	4-5-6 (11)	100			
		Brown, fine SANDY SILT, trace clay, moist, medium dense								
			2	SS	5.0-6.5	6-5-5 (10)	100			
		21.3	3	SS	10.0-11.5	2-4-5 (9)	100			
			4	SS	15.0-16.5	3-4-5 (9)	100			
602.93	21.3		5	SS	20.0-21.5	5-8-10 (18)	100			
		Brown, medium to coarse SAND and GRAVEL, moist - saturated, dense - very dense								
			6	SS	25.0-26.5	7-9-12 (21)	100			
			7	SS	30.0-30.7	37-50/0.2	86			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	40	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-58
Project	Biennerhassett Bridge	Date Started	10/24/2001
Boring Location	Station 2103+95 Offset 145.0 Lt.	Date Completed	10/25/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		28.7 Brown, medium to coarse SAND and GRAVEL, moist - saturated, dense - very dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	28-34-24 (58)	100			
			9	SS	40.0-41.5	28-37-15 (52)	100			
			10	SS	45.0-46.5	15-27-31 (58)	100			
574.23	50.0									
		Brown, medium to coarse SAND, some gravel, wet, dense - medium dense, approximately 0.1' thick coal fragments and coal staining	11	SS	50.0-51.5	10-19-19 (38)	100			
			12	SS	55.0-56.5	21-32-35 (67)	100			
			13	SS	60.0-61.5	27-33-34 (67)	100			
			14	SS	65.0-66.5	11-13-21 (34)	100			
		37.3								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-58
Project	Blennerhassett Bridge	Date Started	10/24/2001
Boring Location	Station 2103+95 Offset 145.0 Lt.	Date Completed	10/25/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, medium to coarse SAND, some gravel, wet, dense - medium dense, approximately 0.1' thick coal fragments and coal staining ***(LAYER CONTINUED DESCRIPTION REPEATED)***	15	SS	70.0-71.5	6-12-10 (22)	100			
			16	SS	75.0-76.5	4-10-11 (21)	100			
			17	SS	80.0-81.5	10-14-11 (25)	100			
536.93	87.3		18	SS	85.0-85.0	50/0.0	0	0		
			1	NX	85.0-88.0		7			
535.33	88.9	1.6 Gray, fine grained SANDSTONE, medium bedded, slightly weathered, limey inclusions, medium hard	2	NX	88.0-93.0		100	60		
533.23	91.0	2.1 RQD 14% Gray, SILTY CLAYSTONE, medium bedded, moderately weathered at 88.9'-90.1', completely weathered at 90.1'-91.0', medium hard - extremely soft								
527.03	97.2	6.2 RQD 69% Gray, fine to medium grained SANDSTONE, medium bedded, slightly weathered, limey inclusions, medium hard, jointed at 60° from horizontal at 93.0'	3	NX	93.0-98.0		88	66		
526.33	97.9	0.7 RQD 0% Gray, SILTY CLAYSTONE, thinly bedded, completely weathered, extremely soft								
		10.1 RQD 84% Gray, fine to medium grained SANDSTONE, medium bedded, slightly weathered, thin micaceous laminations, medium hard, near vertical fracture at 104.4'-104.9'	4	NX	98.0-103.0		88	84		
			5	NX	103.0-108.0		100	92		

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-58
Project	Blennerhassett Bridge	Date Started	10/24/2001
Boring Location	Station 2103+95 Offset 145.0 Lt.	Date Completed	10/25/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
516.23	108.0	Gray, fine to medium grained SANDSTONE, medium bedded, slightly weathered, thin micaceous laminations, medium hard, near vertical fracture at 104.4'-104.9' *(LAYER CONTINUED DESCRIPTION REPEATED)*								
		BORING COMPLETED @ 108.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig.Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-59
Project	Blennerhassett Bridge	Date Started	10/22/2001
Boring Location	Station 2103+98 Offset 51.0 Lt.	Date Completed	10/23/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
618.45	0.0									
618.25	0.2	0.2 TOPSOIL	1	SS	0.0-1.5	12-12-13 (25)	100			
		Brown, fine SANDY SILT, some gravel and rock (sandstone) fragments, trace organics, moist, very dense								
		9.8	2	SS	5.0-6.5	11-11-6 (17)	20			
608.45	10.0									
		Brown, fine to coarse SAND, some rounded river gravel, moist, medium dense - dense	3	SS	10.0-11.5	11-12-6 (18)	33			
			4	SS	15.0-16.5	11-12-6 (18)	27			
			5	SS	20.0-21.5	8-9-6 (15)	60			
		25.0	6	SS	25.0-26.5	15-23-38 (61)	60			
			7	SS	30.0-30.4	34-50/0.4	275			
583.45 ▽	35.0									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	35	ft. ▽
At Completion	34	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-59
Project	Blennerhassett Bridge	Date Started	10/22/2001
Boring Location	Station 2103+98 Offset 51.0 Lt.	Date Completed	10/23/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, medium to coarse SAND and GRAVEL, saturated, medium dense - dense	8	SS	35.0-36.5	6-6-9 (15)	100			
			9	SS	40.0-41.5	6-8-12 (20)	100			
			10	SS	45.0-46.5	23-17-11 (28)	100			
			11	SS	50.0-51.5	8-13-14 (27)	100			
			12	SS	55.0-56.5	4-4-3 (7)	100			
		44.5	13	SS	60.0-61.5	11-18-12 (30)	100			
			14	SS	65.0-66.5	8-20-24 (44)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	35	ft. ▽
At Completion	34	ft. ▼
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-59
Project	Blennerhassett Bridge	Date Started	10/22/2001
Boring Location	Station 2103+98 Offset 51.0 Lt.	Date Completed	10/23/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
547.45	71.0	0.4 Brown, medium to coarse SAND and GRAVEL, saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)* Layer of brown silty fine sand, trace clay, located at 70.5'-71.0'	15	SS	70.0-71.5	8-14-21 (35)	100			
			16	SS	75.0-76.5	17-28-34 (62)	100			
538.95	79.5		17	SS	79.0-79.0	50/0.0	0			
536.85	81.6	2.1 RQD 0% Gray brown and gray, SILTY CLAYSTONE, thin bedded, completely weathered, slickensided surfaces 45° and 60° from horizontal, extremely soft	1	NX	79.5-82.5		93	30	0	
530.65	87.8	6.2 RQD 21% Gray, fine grained SANDSTONE, medium bedded, highly weathered, highly fractured horizontally and vertically, medium hard	2	NX	82.5-87.5		84	8	2-3	
529.65	88.8	1.0 Gray, CLAYSTONE, medium bedded; completely weathered, extremely soft	3	NX	87.5-92.5		92	60	0-3	
525.75	92.7	3.9 RQD 77% Gray, fine grained SANDSTONE, medium bedded, slightly weathered, horizontally jointed at 89.7', claystone laminations from 90.8'-92.7', medium hard								
524.55	93.9	1.2 Gray, SILTY CLAYSTONE, thin bedded, slightly to moderately weathered, at 93.0' slickensided surfaces 60° from horizontal, soft - medium hard	4	NX	92.5-97.5		98	82	3	
		Gray, fine grained SANDY SILTSTONE, medium bedded, faintly weathered, medium grained sandstone interbed at 96.6'-97.1', 103.3'-103.6', 103.9'-105.0', and 106.7'-107.1', trace thin claystone laminations, near vertical fracture at 101.3'-101.6' and 107.2'-107.3', medium hard	5	NX	97.5-102.5		98	86	3	
		13.6	6	NX	102.5-107.5		100	100	3	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	35	ft. ▽
At Completion	34	ft. ▼
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-59
Project	Blennerhassett Bridge	Date Started	10/22/2001
Boring Location	Station 2103+98 Offset 51.0 Lt.	Date Completed	10/23/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
510.95	107.5	BORING COMPLETED @ 107.5'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 35 ft. ▽
At Completion: 34 ft. ▼
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-60
Project	Blennerhassett Bridge	Date Started	11/1/2001
Boring Location	Station 2103+98 Offset 0.0 CL.	Date Completed	11/1/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
616.46	0.0	
616.16	0.3	0.3 TOPSOIL
		Brown, fine SANDY SILT, little gravel, trace clay, moist, loose
		12.7
603.46	13.0	
		Brown, medium to coarse SAND, some rounded river gravel, moist - saturated, medium dense - dense

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	2-2-2 (4)	100			
2	SS	5.0-6.5	2-3-2 (5)	100			
3	SS	10.0-11.5	5-5-6 (11)	67			
4	SS	15.0-16.5	2-2-3 (5)	100			
5	SS	20.0-21.5	3-5-5 (10)	100			
6	SS	25.0-26.5	10-15-15 (30)	100			
7	SS	30.0-31.5	9-11-9 (20)	80			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	40	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-60
Project	Blennerhassett Bridge	Date Started	11/1/2001
Boring Location	Station 2103+98 Offset 0.0 CL.	Date Completed	11/1/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		10.0 Brown, medium to coarse SAND, some rounded river gravel, moist - saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)* Saturated below 40.0'	8	SS	35.0-36.5	9-11-15 (26)	67			
576.46▽	40.0	10.0	9	SS	40.0-41.5	13-15-15 (30)	100			
571.46	45.0	62.5	10	SS	45.0-46.5	14-14-15 (29)	100			
			11	SS	50.0-51.5	15-15-19 (34)	100			
			12	SS	55.0-56.5	14-15-16 (31)	100			
			13	SS	60.0-61.5	11-10-11 (21)	100			
			14	SS	65.0-66.5	13-14-10 (24)	100			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-60
Project	Blennerhassett Bridge	Date Started	11/1/2001
Boring Location	Station 2103+98 Offset 0.0 CL.	Date Completed	11/1/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, medium to coarse SAND, some rounded river gravel, moist - saturated, medium dense - dense *(LAYER CONTINUED DESCRIPTION REPEATED)* Seam of coal fragments at 31.5' Seam of coal fragments at 31.5' *(LAYER CONTINUED DESCRIPTION REPEATED)*	15	SS	70.0-71.5					
540.96	75.5		16	SS	75.0-75.5	21-50/0.0	100			
		2.7 RQD 0% Reddish brown, SILTY CLAYSTONE, medium bedded, completely weathered, extremely soft	1	NX	75.5-78.0		40	0	0	
538.26	78.2									
537.36	79.1	0.9 RQD 122% Gray, SILTSTONE, medium bedded, slightly weathered, limey inclusions, medium hard	2	NX	78.0-83.0		100	42	3-0	
534.46	82.0	2.9 RQD 0% Gray and reddish brown, SILTY CLAYSTONE, medium bedded, slightly to highly weathered, slickensided surfaces at 30°-60° from horizontal, limey inclusions, medium hard - extremely soft								
		8.6 RQD 64% Gray, fine to medium grained SILTY SANDSTONE, medium bedded, slightly weathered, silty claystone laminations at 86.9'-87.5', medium hard - extremely soft	3	NX	83.0-88.0		100	80	3-0	
			4	NX	88.0-93.0		100	38	3-0	
525.86	90.6									
524.06	92.4	1.8 RQD 0% Gray, CLAY SHALE, laminated, completely weathered, extremely soft								
		10.6 Gray, fine to medium grained SANDSTONE with siltstone interbeds at 92.6'-94.0' and 98.0'-101.7', limey inclusions, few claystone laminations with slickensided surfaces 35° horizontal, micaceous laminations, medium bedded, slightly weathered, medium hard	5	NX	93.0-98.0			92		
			6	NX	98.0-103.0					
513.46	103.0									
		BORING COMPLETED @ 103.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: 40 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-61
Project	Biennerhassett Bridge	Date Started	10/20/2001
Boring Location	Station 2103+98 Offset 51.0 Rt.	Date Completed	10/22/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
623.82	0.0									
623.32	0.5	0.5 TOPSOIL	1	SS	0.0-1.5	3-6-6 (12)	87			2
		Light brown, SILTY CLAY, trace organics (roots), moist								
		3.5								
619.82	4.0									
		Light brown, SILT, trace clay, trace fine sand, moist - very moist	2	SS	5.0-6.5	2-4-7 (11)	73			1.75
		3.5								
616.32	7.5									
		Brown, SILTY SAND, very moist	3	SS	10.0-11.5	1-3-3 (6)	87			
		7.5								
608.82	15.0									
		Brown, SAND, coarse grained, few coarse grained, few clay laminations, some rock fragments (gravel), wet - saturated, at 16.0'	4	SS	15.0-16.5	3-5-7 (12)	100			
			5	SS	20.0-21.5	7-7	67			
			6	SS	25.0-26.5	1-2-3 (5)	100			
		25.0								
			7	SS	30.0-31.5	5-7-8 (15)	80			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	45	ft. ▽
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-61
Project	Blennerhassett Bridge	Date Started	10/20/2001
Boring Location	Station 2103+98 Offset 51.0 Rt.	Date Completed	10/22/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
588.32	35.5	0.4 Brown, SAND, coarse grained, few coarse grained, few clay laminations, some rock fragments (gravel), wet - saturated, at 16.0' *(LAYER CONTINUED DESCRIPTION REPEATED)* Gray limestone cobble at 35.0' to 35.5'	8	SS	35.0-36.5	22-14-14 (28)	53			
583.82	40.0									
		Brown, SAND, medium to coarse grained, little rock fragments (rounded gravel), wet, medium dense	9	SS	40.0-41.5	3-8-9 (17)	100			
		5.0								
578.82▽	45.0									
		Brown, SAND and GRAVEL, coarse sand, rounded river gravel, saturated, medium dense - very dense	10	SS	45.0-46.5	8-9-12 (21)	0			
			11	SS	50.0-51.5	7-9-9 (18)	100			
			12	SS	55.0-56.5	18-12-9 (21)	27			
			13	SS	60.0-61.5	9-7-7 (14)	100			
			14	SS	65.0-66.5	31-21-22 (43)	100			
		45.3								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 45 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-61
Project	Blennerhassett Bridge	Date Started	10/20/2001
Boring Location	Station 2103+98 Offset 51.0 Rt.	Date Completed	10/22/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, SAND and GRAVEL, coarse sand, rounded river gravel, saturated, medium dense - very dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	15	SS	70.0-70.4	50/0.4	100			
			16	SS	75.0-75.3	50/0.4	133			
			17	SS	80.0-81.5	21-14-20 (34)	100			
			18	SS	85.0-85.3	50/0.3	67			
533.52	90.3		19	SS	90.0-90.3	50/0.3	0	57	1-3	
		4.0 RQD 0% Gray, SILTY CLAYSTONE, limey inclusions, medium bedded, highly to completely weathered, slickensided surfaces at 50°-40° from horizontal spread 0.2' or less, very soft - medium hard	1	NX	90.3-91.0		100			
529.52	94.3	Claystone, highly weathered and very soft.	2	NX	91.0-96.0		98	42	1-3	
		4.7 3.8 RQD 66% Gray, fine grained SANDSTONE, limey medium bedded, slightly to faintly weathered, ???? micaceous laminations, medium hard	3	NX	96.0-101.0		96	44	3-0	
526.52	97.3	Claystone laminations								
526.17	97.7	0.4								
525.72	98.1	1.9 RQD 0% Gray, CLAY SHALE, laminated, completely weathered, limey inclusions, extremely soft								
523.82	100.0		4	NX	101.0-106.0		100	92		
		7.7 RQD 70% Gray, SILTSTONE, with thin very soft claystone laminations spaced about 0.2', laminated to thinly bedded, slightly weathered, limey inclusions, medium hard								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 45 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-61
Project	Blennerhassett Bridge	Date Started	10/20/2001
Boring Location	Station 2103+98 Offset 51.0 Rt.	Date Completed	10/22/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
516.12	107.7	Gray, SILTSTONE, with thin very soft claystone laminations spaced about 0.2', laminated to thinly bedded, slightly weathered, limey inclusions, medium hard ***(LAYER CONTINUED DESCRIPTION REPEATED)***	5	NX	106.0-111.0		100	100		
512.82	111.0	3.3 RQD 82% Gray, fine to medium grained SANDSTONE, thin micaceous laminations, thinly to medium bedded, slightly weathered, clay shale layout at 109.8' to 110.2', medium hard								
		BORING COMPLETED @ 111.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 45 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-62
Project	Blennerhassett Bridge	Date Started	10/23/2001
Boring Location	Station 2105+68 Offset 40.0 Lt.	Date Completed	10/24/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
599.96	0.0									
		Gravel, sand and coal	1	SS	0.0-1.5	5-4-3 (7)	100			
597.96	2.0	2.0								
		Brown and gray, mottled SILTY CLAY, moist, soft								
			2	SS	5.0-6.5	11-8-8 (16)	87			2
		8.0								
589.96	10.0									
		Brown and gray, mottled LEAN CLAY, some silt, moist, soft	3	SS	10.0-11.5	5-2-3 (5)	100			0.75
		5.0								
584.96	15.0									
		Gray, medium to coarse SAND, some gravel, wet, loose	4	SS	15.0-16.5	3-2-3 (5)	73			
		5.0								
579.96	20.0									
		Brown, medium to coarse sand, some gravel, increasing density with depths, saturated, loose - very dense	5	SS	20.0-21.5	3-3-2 (5)	100			
			6	SS	25.0-26.5	3-3-3 (6)	93			
			7	SS	30.0-31.5	5-3-4 (7)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	21.5	ft. ▽
At Completion	16.5	ft. ▼
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-62
Project	Blennerhassett Bridge	Date Started	10/23/2001
Boring Location	Station 2105+68 Offset 40.0 Lt.	Date Completed	10/24/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, medium to coarse sand, some gravel, increasing density with depths, saturated, loose - very dense *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	5-6-9 (15)	67			
		36.0	9	SS	40.0-41.5	3-4-10 (14)	100			
			10	SS	45.0-46.5	29-22-19 (41)	100			
			11	SS	50.0-51.5	30-17-18 (35)	100			
543.96	56.0		12	SS	55.0-56.3	12-39-50/0.3	115			
540.96	59.0	3.0 Brown, fine to medium grained SANDSTONE, medium bedded, completely weathered, very soft								
538.96	61.0	2.0 Gray, CLAYEY SILTSTONE, medium bedded, moderately to highly weathered, highly weathered, soft	13	SS	59.5-59.5		40	0	0	
			1	NX	59.5-60.0		100	36	0-3	
			2	NX	60.0-65.0					
536.96	63.0	2.0 Reddish brown and gray, SILTY CLAYSTONE, medium bedded, completely weathered, extremely soft								
533.06	66.9	3.9 RQD 64% Gray, fine grained SANDSTONE, medium bedded, slightly weathered, jointed 50° from horizontal at 63.1' to 63.4', layer of completely weathered, claystone siltstone at 64.3' to 64.45', limey areas, medium hard - extremely soft	3	NX	65.0-70.0		100	68	0-3	
531.66	68.3	1.4 RQD 0% Gray, CLAY SHALE, laminated, highly weathered, limey inclusions, extremely soft - medium hard								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	21.5	ft. ▽
At Completion	16.5	ft. ▼
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-62
Project	Blennerhassett Bridge	Date Started	10/23/2001
Boring Location	Station 2105+68 Offset 40.0 Lt.	Date Completed	10/24/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		8.3 Gray, fine grained SANDSTONE, limey inclusions, thinly bedded, moderately to slightly weathered, moderately fractured (relative horizontally), little silty clay shale laminations from 70.6' to 76.6', medium hard ***(LAYER CONTINUED DESCRIPTION REPEATED)***	4	NX	70.0-75.0		100	56	2-3	
523.36	76.6		5	NX	75.0-80.0		100	56	3-0	
522.16	77.8	1.2 RQD 0% Gray, CLAY SHALE, laminated, highly to completely weathered, limey inclusions, extremely soft - very soft								
520.66	79.3	1.5 RQD 100% Gray, fine grained SANDSTONE, medium bedded, slightly weathered, medium hard								
518.46	81.5	2.2 RQD 23% Gray, interbedded SILTSTONE and SILTY SHALE, laminated to thinly bedded, highly weathered to slightly weathered, medium hard	6	NX	80.0-85.0		98	96	3	
		Gray, medium grained SANDSTONE, medium to thickly bedded, slightly to faintly weathered, limey 87.5' to 90.5', medium hard	7	NX	85.0-90.0		100	100	3	
		9.0 RQD 96%								
509.46	90.5		8	NX	90.0-93.5		100	26	1-2	
		3.6 RQD 8% Gray and brown, CLAY SHALE, thinly laminated, highly weathered, sandy siltstone layers at 91.8' to 93.0' and 93.3' to 93.5', very soft - soft	9	NX	93.5-95.0		67	33	1-2	
505.86	94.1									
504.66	95.3	1.2 RQD 0% Reddish brown, CLAYSTONE, medium bedded, highly weathered, slickensided surfaces at 30° and 70° from horizontal, soft	10	NX	95.0-100.0		92	48	1-2	
		2.3 RQD 0% Dark gray, SILTY CLAYSTONE, medium bedded, highly weathered, slickensided surfaces present throughout sample (variety of angles and orientations, slickensided surfaces are not uniform across and core sample), soft								
502.36	97.6									
		2.9 RQD 34%								
499.46	100.5		11	NX	100.0-105.0		84	50	2	
		4.5 RQD 0% Gray, SILTY CLAYSTONE, medium bedded, moderately weathered, slickensided surface 10° to 40° from horizontal spaced 0.02' to 0.2', mottled with reddish brown claystone with depth, soft - medium hard								
494.96	105.0	Reddish brown, SILTY CLAYSTONE, thick bedded, moderately to highly weathered, slickensided surfaces 10° to 40°, from								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 21.5 ft. ▽
At Completion: 16.5 ft. ▼
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-62
Project	Blennerhassett Bridge	Date Started	10/23/2001
Boring Location	Station 2105+68 Offset 40.0 Lt.	Date Completed	10/24/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		horizontal space 0.2', soft - extremely soft	12	NX	105.0-110.0		100	64	0-2	
492.46	107.5	2.5 RQD 28% Gray, SILTY CLAY SHALE, trace sandstone gravel, thinly laminated, moderately weathered, soft - medium hard								
		5.2 RQD 13% Reddish brown, SILTY CLAYSTONE, thick bedded, moderately to highly weathered, slickensided surfaces 5°-45° (25°-35° typical) from horizontal spaced 0.05' to 0.2', soft - extremely soft	13	NX	110.0-115.0		84	60	0-1	
487.26	112.7									
484.96	115.0	2.3 Reddish brown, SILTY CLAY SHALE, thinly laminated, moderately weathered, slickensided surfaces day lighting at various angles, 96.5' shale laminations surfaces								
		BORING COMPLETED @ 115.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Charleston WV 25301
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 21.5 ft. ▽
At Completion: 16.5 ft. ▼
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-63
Project	Blennerhassett Bridge	Date Started	11/1/2001
Boring Location	Station 2105+85 Offset 0.0 CL.	Date Completed	11/2/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
599.86	0.0	
599.36	0.5	0.5 Limestone gravel and coal (FILL)
		Gray and brown, mottled LEAN CLAY, little silt, trace sand and gravel, trace organics, trace coal, very moist, soft
		25.5
573.86	26.0	
		Brown, SAND and GRAVEL, little clay, saturated, loose
		9.0
564.86	35.0	

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	1-1-1 (2)	13			
2	SS	5.0-6.5	1-1-1 (2)	20			
3	SS	10.0-11.5	2-3-2 (5)	67			
4	SS	15.0-16.5	1-2-2 (4)	60			
5	SS	20.0-21.5	3-2-3 (5)	100			
6	SS	25.0-26.5	3-3-3 (6)	67			
7	SS	30.0-31.5	3-2-2 (4)	20			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate		ft.
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-63
Project	Blennerhassett Bridge	Date Started	11/1/2001
Boring Location	Station 2105+85 Offset 0.0 CL.	Date Completed	11/2/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, medium SAND, saturated, loose - medium dense	8	SS	35.0-36.5	4-6-4 (10)	100			
		6.0								
558.86	41.0		9	SS	40.0-41.5	4-5-8 (13)	100			
		Brown, medium to coarse SAND, some gravel, trace clay, saturated, medium dense								
			10	SS	45.0-46.5	4-6-5 (11)	100			
		14.0								
			11	SS	50.0-51.5	9-14-12 (26)	0			
544.86	55.0									
		Brown, fine to medium grained SAND, saturated, medium dense	12	SS	55.0-56.5	15-10-12 (22)	100			
		4.0								
540.86	59.0									
		2.0 RQD 0% Reddish brown, SILTY CLAYSTONE, medium bedded, completely weathered, extremely soft	13	SS	59.0-59.0	50/0.0	100	100	0	
538.86	61.0		1	NX	59.0-61.0					
		1.7 RQD 0% Reddish brown and gray, mottled SILTY CLAYSTONE, medium bedded, highly weathered, very soft	2	NX	61.0-66.0		92	90	1-3	
537.16	62.7									
		2.9 RQD 72% Gray, fine grained SANDSTONE, medium bedded, slightly weathered, jointed at 64.4' with a 0.1' thick lamination of completely weathered brown clayey siltstone, medium hard								
534.26	65.6									
		3.8 RQD 0% Gray, CLAY SHALE, laminated, highly weathered, limey inclusions, extremely soft - medium hard	3	NX	66.0-71.0		100	64	3-0	
530.46	69.4									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Observations

Immediate ____ ft.
At Completion ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-63
Project	Blennerhassett Bridge	Date Started	11/1/2001
Boring Location	Station 2105+85 Offset 0.0 CL.	Date Completed	11/2/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	NO.	TYPE	SAMPLE DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		3.4 RQD 65% Gray, fine stained SANDSTONE, limey inclusions, thinly bedded, slightly weathered, moderately fractured (relatively horizontally), medium hard *(LAYER CONTINUED - DESCRIPTION REPEATED)*								
527.06	72.8		4	NX	71.0-76.0		88	40	3	
526.36	73.5	0.7 RQD 0% Gray, CLAYEY SILTSTONE, thinly bedded, highly weathered, medium hard, with extremely soft laminations								
		7.7 RQD 44% Gray, SANDY SILTSTONE, limey inclusions, medium bedded, slightly weathered, moderately fractured (relatively horizontally), little silty clay shale laminations from 77.0'-78.1' and 79.3'-80.0', medium hard	5	NX	76.0-81.0		100	60	3	
518.66	81.2									
		9.8 RQD 52% Gray, fine to coarse grained SANDSTONE, medium bedded, slightly weathered, high angle fracturing at 82.0'-84.1' and 84.8'-85.8', micaceous laminations, medium hard	6	NX	81.0-86.0		100	78	3	
508.86	91.0		7	NX	86.0-91.0		80	58	3	
		3.7 RQD 24% Gray and reddish brown, CLAY SHALE laminated, highly weathered, sandy siltstone layer at 91.9'-92.5', extremely soft - soft	8	NX	91.0-96.0		100	42	0-3	
505.16	94.7									
503.86	96.0	1.3 RQD 0% Reddish brown, CLAYSTONE, medium bedded, highly weathered, slickensided at 40° from horizontal, extremely soft								
503.16	96.7	0.7 RQD 0% Dark gray, SILTY CLAYSTONE, medium bedded, highly weathered, slickensided surfaces 30°-80° from horizontal, soft	9	NX	96.0-101.0		94	88	1-3	
500.16	99.7	3.0 RQD 67% Gray, SILTY CLAYSTONE, medium bedded, moderately weathered, slickensided surfaces 15°-40° from horizontal ??? 0.1'-0.8', soft - medium hard								
		Reddish brown, SILTY CLAYSTONE, thick bedded, moderately to highly weathered (completely weathered 103.0'-105.7'), slickensided surfaces 10°-40° from horizontal, ???? approximately 0.2'-0.4', soft - extremely soft	10	NX	101.0-106.0		100	60	3-0	

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-63
Project	Blennerhassett Bridge	Date Started	11/1/2001
Boring Location	Station 2105+85 Offset 0.0 CL.	Date Completed	11/2/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		11.3 RQD 0% Reddish brown, SILTY CLAYSTONE, thick bedded, moderately to highly weathered (completely weathered 103.0'-105.7'), slickensided surfaces 10°-40° from horizontal, ???? approximately 0.2'-0.4', soft - extremely soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	11	NX	106.0-111.0		100	60		
488.86	111.0	BORING COMPLETED @ 111.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-64
Project	Blennerhassett Bridge	Date Started	10/24/2001
Boring Location	Station 2106+50 Offset 54.0 Lt.	Date Completed	10/24/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
599.68	0.0									
598.98	0.7	0.7 Concrete slab								
598.68	1.0	0.3 Gravel (FILL)								
		Gray, LEAN CLAY, trace silt, moist, stiff								
		9.0	1	SS	5.0-6.5	1-2-2 (4)	100			1.25
589.68	10.0									
		Gray, SILTY CLAY, very moist, soft - medium stiff	2	SS	10.0-11.5	1-1-1 (2)	100			
			3	SS	15.0-16.5	2-2-2 (4)	100			
			4	SS	20.0-21.5	2-4-4 (8)	100			
		25.0	5	SS	25.0-26.5	5-5-4 (9)	100			0.25
			6	SS	30.0-31.5	5-6-8 (14)	100			0.25
564.68	35.0									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate ____ ft.
At Completion ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-64
Project	Blennerhassett Bridge	Date Started	10/24/2001
Boring Location	Station 2106+50 Offset 54.0 Lt.	Date Completed	10/24/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SILTY CLAY, trace sand, trace gravel, medium stiff	7	SS	35.0-36.5	3-4-6 (10)	73			.5
			8	SS	40.0-41.5	3-4-4 (8)	100			.25
554.68	45.0	10.0								
		Gray, SAND and GRAVEL, trace clay, saturated, medium dense	9	SS	45.0-46.5	4-2-4 (6)	27			
			10	SS	50.0-51.5	5-9-9 (18)	73			
			11	SS	55.0-56.5	9-8-5 (13)	87			
540.18	59.5	14.5								
		Gray or reddish brown, SILTY CLAYSTONE, medium bedded, highly weathered, slickensided 45° from horizontal, soft - very soft	12	SS	59.5-59.5	50/0.0	0	0	1-2	
			1	NX	59.5-63.0		40			
536.68	63.0	3.5								
		Gray, SILTSTONE with fine to medium grained sandstone, interbedded with micaceous laminations at 63.8' to 64.5', 69.3' to 69.9', 70.6' to 72.1', clayey silt shale interbeds at 68.2' to 69.3', 72.1' to 72.6', and 73.3' to 74.4', completely friable 72.1' to 72.6'	2	NX	63.0-65.0		110	95	3	
			3	NX	65.0-70.0		86	80	3-2	
		11.4 RQD 69%								

General Notes

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Method: NX/SS

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Water Level Observations

Immediate ____ ft.
At Completion ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-64
Project	Blennerhassett Bridge	Date Started	10/24/2001
Boring Location	Station 2106+50 Offset 54.0 Lt.	Date Completed	10/24/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
525.28	74.4	Gray, SILTSTONE with fine to medium grained sandstone, interbedded with micaceous laminations at 63.8' to 64.5', 69.3' to 69.9', 70.6' to 72.1', clayey silt shale interbeds at 68.2' to 69.3', 72.1' to 72.6', and 73.3' to 74.4', completely friable 72.1' to 72.6' *(LAYER CONTINUED DESCRIPTION REPEATED)*	4	NX	70.0-75.0		100	84	3-2	
520.88	78.8	4.4 RQD 61% Gray, fine to medium grained SANDSTONE, thick micaceous laminations, thinly bedded, slightly to faintly weathered, fractures 75° from horizontal at 76.5' to 77.1', medium hard	5	NX	75.0-80.0		96	68	3	
520.58	79.1	0.3 RQD 0% Gray, SILTY CLAY SHALE, thinly bedded, faintly weathered, medium hard								
518.08	81.6	2.5 RQD 76% Gray, coarse grained SANDSTONE, medium bedded, slightly weathered, micaceous inclusions, medium hard	6	NX	80.0-85.0		98	96	3	
513.48	86.2	4.6 RQD 48% Gray, SILTSTONE with silty shale interbeds at 81.8' to 81.9', 87.8' to 82.9', 53.4' to 85.1, and 85.3' to 85.4', thinly to medium bedded, slightly weathered, medium hard	7	NX	85.0-90.0		98	90	3-2	
510.28	89.4	3.2 RQD 84% Gray, fine to coarse grained SANDSTONE, thin micaceous laminations, medium bedded, slightly weathered, near vertical fracture at 88.6' to 89.0', medium hard								
505.68	94.0	4.6 RQD 46% Gray, SILTY CLAY SHALE, laminated, slightly weathered, soft - medium hard	8	NX	90.0-95.0		82	66	2-3	
496.98	102.7	8.7 RQD 3% Gray to reddish brown, SILTY CLAYSTONE, thick bedded, highly weathered, slickensided surfaces 20°-50° from horizontal spaces approximately every 0.2', very soft	9	NX	95.0-100.0		64	10	2-3	
		2.6 RQD 62% Reddish brown and gray, mottled SILTY SHALE, laminated, moderately weathered, medium hard	10	NX	100.0-105.0		74	42	3	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate		ft.
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-64
Project	Blennerhassett Bridge	Date Started	10/24/2001
Boring Location	Station 2106+50 Offset 54.0 Lt.	Date Completed	10/24/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
494.38	105.3	Reddish brown, SILTY CLAYSTONE, thick bedded, highly weathered, slickensided surfaces at 25°-30° from horizontal (spaced 0.1-0.2), very soft — 5.0 RQD 0%
489.38	110.3	Reddish brown and gray, mottled SILTY CLAYSTONE, silty clay shale, laminated, highly weathered, very soft — 3.6 RQD 19%
485.78	113.9	Gray, fine grained SANDSTONE, micaceous inclusions, medium bedded, slightly weathered, medium hard — 1.6 RQD 56%
484.18	115.5	Reddish brown, SILTY CLAYSTONE, thick bedded, slightly weathered, slickensided surfaces at 15°-45° from horizontal (not spread at regular intervals 0.1' to 0.8'), medium hard — 16.9
467.28	132.4	Reddish brown, SILTY CLAYSTONE, thick bedded, highly to completely weathered, slickensided surfaces 15°-75° fro horizontal intervals 0.2' to 0.6' approximate, gray siltstone ??? about 0.4' thick between 135'-140', extremely soft - soft — 11.0 RQD 7%

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
11	NX	105.0-110.0		86	36	2-1	
12	NX	110.0-115.0		100	84	2-1	
13	NX	115.0-120.0		92	90	3	
14	NX	120.0-125.0		80	62	3	
15	NX	125.0-130.0		40	16	3	
16	NX	130.0-135.0		100	62	3-0	
17	NX	135.0-140.0		26	0		

General Notes

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Rig No.	
Rig Type	Track
Method	NX/SS

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Water Level Observations

Immediate		ft.
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-64
Project	Blennerhassett Bridge	Date Started	10/24/2001
Boring Location	Station 2106+50 Offset 54.0 Lt.	Date Completed	10/24/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
456.28	143.4		18	NX	140.0-145.0		60	18	3	
449.68	150.0	Reddish brown to gray, SILTSTONE, medium bedded, moderately weathered, pyritic laminations, medium hard 6.6 RQD 11%	19	NX	145.0-150.0		44	14	3	
448.38	151.3	1.3 RQD 0% Light brownish gray, LIMESTONE, medium bedded, highly weathered (specially 150.9'-151.3', medium hard	20	NX	150.0-155.0		100	56	3-0	
445.98	153.7	2.4 RQD 33% Gray, SILTSTONE, medium bedded, moderately weathered, pyritic laminations and ????, limey, few thin claystone laminations increase with depth, medium hard								
439.68	160.0	Reddish brown, SILTY CLAYSTONE, thick bedded, moderately to highly weathered, slickensided surfaces from 0°-90° from horizontal ??????, very soft - hard 6.3 RQD 30%	21	NX	155.0-160.0		80	52	1-3	
		BORING COMPLETED @ 160.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Observations

Immediate ____ ft.
At Completion ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-65
Project	Blennerhassett Bridge	Date Started	10/29/2001
Boring Location	Station 2106+50 Offset 54.0 Rt.	Date Completed	11/1/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
599.72	0.0	Brown, clay and coal (FILL), moist, stiff	1	SS	0.0-1.5	1-2-1 (3)	33			2.5
	7.5		2	SS	5.0-6.5	3-1-2 (3)	47			3
592.22	7.5	Gray, SANDY SILT, trace clay, very moist, soft	3	SS	10.0-11.5	1-2-1 (3)	100			
	6.5		4	SS	15.0-16.5	1-1-1 (2)	100			0.25
585.72	14.0	Gray, SILTY CLAY and coal, very moist, soft	5	SS	20.0-21.5	1-1-1 (2)	113			0.25
	7.0		6	SS	25.0-26.5	2-3-3 (6)	100			0.25
578.72	21.0	Brown, SILTY CLAY, very moist, soft	7	SS	30.0-31.5	2-3-2 (5)	87			0.25
	9.0									
569.72	30.0	Gray, SILTY CLAY, trace coal, trace organics, very moist, soft								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-65
Project	Blennerhassett Bridge	Date Started	10/29/2001
Boring Location	Station 2106+50 Offset 54.0 Rt.	Date Completed	11/1/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SILTY CLAY, trace coal, trace organics, very moist, soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	2-2-3 (5)	67			0.25
			9	SS	40.0-41.5	3-4-5 (9)	87			.5
			10	SS	45.0-46.5	5-5-4 (9)	100			0.25
549.72	50.0	20.0								
		Brown, fine to coarse SAND, trace gravel, wet, medium dense	11	SS	50.0-51.5	12-14-13 (27)	100			
			12	SS	55.0-56.5	12-9-12 (21)	73			
539.62	60.1	10.1								
537.32	62.4	2.3 RQD 0% Gray and reddish brown, SILTY CLAYSTONE, medium bedded, highly weathered, extremely soft - very soft	13	SS	60.0-60.1	50/0.1	0	80	0-3	
			1	NX	60.1-65.0		100			
		Gray, fine grained SILTY SANDSTONE, limey inclusions, medium bedded, slightly weathered, near vertical fracture 63.7'-64.8', medium hard								
			2	NX	65.0-70.0		46	8	3	
531.02	68.7	6.3 RQD 30%								
		2.0 RQD Gray, CLAYEY SILTSTONE, medium bedded, slightly weathered, slickensided surfaces								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Observations

Immediate _____ ft.
At Completion _____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-65
Project	Blennerhassett Bridge	Date Started	10/29/2001
Boring Location	Station 2106+50 Offset 54.0 Rt.	Date Completed	11/1/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
529.02	70.7	40% 35°-60° from horizontal, medium hard	3	NX	70.0-75.0		84	70	3	
		Gray, fine grained SILTY SANDSTONE, limey inclusions, medium bedded, slightly weathered, clay shale laminations, medium hard								
		9.6 RQD 70%	4	NX	75.0-80.0		100	94	3	
519.42	80.3									
		Gray, medium to coarse SANDSTONE, thick bedded, slightly weathered, medium hard	5	NX	80.0-85.0		84	8	3	
		10.3 RQD 51%	6	NX	85.0-90.0		100	100	3	
509.12	90.6									
507.92	91.8	0.8 Gray, SILTY CLAY SHALE, laminated, highly weathered ?????, soft	7	NX	90.0-95.0		100	80	2-3	
		3.4 RQD 26% Slightly weathered, medium hard siltstone lamination at 90.9' to 91.8'								
506.72	93.0									
505.72	94.0	0.2 Limestone laminations at 92.7' to 93.0'								
		Dark gray and reddish brown, mottled SILTY CLAYSTONE, medium to thick bedded, highly to completely weathered, slickensided surfaces at 20°-60° from horizontal, soft - extremely soft	8	NX	95.0-100.0		100	96	1-2	
		17.7 RQD 0%	9	NX	100.0-105.0		100	72	0-2	

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate ____ ft.
At Completion ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-65
Project	Blennerhassett Bridge	Date Started	10/29/2001
Boring Location	Station 2106+50 Offset 54.0 Rt.	Date Completed	11/1/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Dark gray and reddish brown, mottled SILTY CLAYSTONE, medium to thick bedded, highly to completely weathered, slickensided surfaces at 20°-60° from horizontal, soft - extremely soft ***(LAYER CONTINUED DESCRIPTION REPEATED)***	10	NX	105.0-110.0		100	0	0	
488.02	111.7		11	NX	110.0-115.0		100	84	0-3	
		2.6 RQD 0% Reddish brown, SILTY CLAYSTONE, thick bedded, slightly weathered, slickensided surfaces 30° from horizontal (not ??? at regular intervals 0.2' to 0.8'), medium hard								
485.42	114.3									
		1.8 Reddish brown to gray, SANDY SILTSTONE, calcareous to gray at 115.1', moderately weathered, medium hard	12	NX	115.0-120.0		96	88	3	
483.62	116.1									
		Reddish brown, SILTY CLAYSTONE, thick bedded, slightly weathered, slickensided ??? 10°-30° from horizontal (not spread at regular intervals 0.2'-1.0'), medium hard	13	NX	120.0-125.0		90	48	3-0	
		13.8 RQD 56%	14	NX	125.0-130.0		100	48	3	
469.82	129.9									
		Reddish brown and gray, mottled SILTY CLAYSTONE, thinly to moderately bedded, highly weathered, slickensided surfaces at 20°-60° from horizontal (not spaced at regular intervals 0.2'-0.8'), extremely soft - very soft	15	NX	130.0-135.0		100	44	0	
		10.5 RQD 10%	16	NX	135.0-140.0		94	48	1	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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Water Level Observations

Immediate		ft.
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-65
Project	Blennerhassett Bridge	Date Started	10/29/2001
Boring Location	Station 2106+50 Offset 54.0 Rt.	Date Completed	11/1/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
459.32	140.4	Reddish brown, brown and gray, SILTY CLAY SHALE, laminated, highly weathered, sporadic slickensided surfaces 15°-45° from horizontal, fine sand and pyrite inclusion at 147.5'-149-, extremely soft - medium hard	17	NX	140.0-145.0		96	90	1-2	
		10.4 RQD 34%	18	NX	145.0-150.0		94	76	1-3	
448.92	150.8		19	NX	150.0-155.0		100	30	1-3	
447.52	152.2	1.4 RQD 0% Light brown, LIMESTONE, medium bedded, highly weathered, medium hard								
		Gray, SILTY CLAYSTONE, limey, medium to thick bedded, faintly weathered, color changes to mottled reddish brown, brown and gray at 154.9', slickensided surfaces at 30°-50° from horizontal (sporadic), vertical joints at 154.7'-154.9' and 165.0'-*165.4', medium hard	20	NX	155.0-160.0		6	0	3	
		13.8 RQD 12%	21	NX	160.0-162.0		10	0	3	
			22	NX	162.0-165.0		13	13	3	
433.72	166.0		23	NX	165.0-170.0		98	58	3-1	
		4.0 Reddish brown and gray, mottled SILTY CLAYSTONE, thick bedded, highly weathered, slickensided surfaces 25°-65° from horizontal, ???? to gray at 165.3', soft - very soft								
429.72	170.0	BORING COMPLETED @ 170.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Observations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-66
Project	Blennerhassett Bridge	Date Started	10/5/2001
Boring Location	Station 2108+80 Offset 30.0 Rt.	Date Completed	11/7/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
598.92	0.0	TOPSOIL	1	SS	0.0-1.5	4-3-4 (7)	73			
		5.5								
593.42	5.5	Reddish brown and gray, mottled LEAN CLAY, some silt, dry, hard	2	SS	5.0-6.5	14-14-15 (29)	100			4.5
		5.1								
588.32	10.6	Brown, fine SILTY SAND, dry, dense	3	SS	10.0-11.5	14-12-15 (27)	93			
		4.4								
583.92	15.0	Brown, medium SAND, trace silt, saturated, very loose - loose	4	SS	15.0-16.5	2-2-1 (3)	67			
			5	SS	20.0-21.5	2-1-2 (3)	87			
			6	SS	25.0-26.5	3-2-2 (4)	100			
		25.0	7	SS	30.0-31.5	2-3-3 (6)	93			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-66
Project	Blennerhassett Bridge	Date Started	10/5/2001
Boring Location	Station 2108+80 Offset 30.0 Rt.	Date Completed	11/7/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, medium SAND, trace silt, saturated, very loose - loose *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	4-6-4 (10)	0			
558.92	40.0									
		Brown, fine to coarse SAND, little gravel, trace boulders, saturated, medium dense - dense	9	SS	40.0-41.5	5-10-14 (24)	67			
			10	SS	45.0-46.5	18-21-25 (46)	0			
		20.3	11	SS	50.0-50.8	50/0.3	0			
			1	NX	54.5-56.0		0	0	0	
			2	NX	56.0-61.0		14	8	3	
538.62	60.3									
538.22	60.7	0.4 RQD 100% Gray, medium grained SANDSTONE, thinly bedded, slightly weathered, medium hard	3	NX	61.0-66.0		100	98	3	
537.12	61.8	1.1 RQD 0% Gray, SILTY CLAYSTONE, thinly bedded, slightly to completely weathered, medium hard - extremely soft								
534.32	64.6	2.8 RQD 89% Gray, fine to medium grained SANDSTONE, medium bedded, slightly weathered, limey inclusions, medium hard								
532.92	66.0	1.4 RQD 21% Gray, SILTY SHALE, laminated, slightly weathered, few 0.1' thick clay shale laminations, soft - medium hard	4	NX	66.0-71.0		98	64	3	
		6.7 RQD Gray, fine to medium grained SILTY SANDSTONE, few 0.1'-0.3' thick clay shale laminations, thin micaceous laminations, thinly bedded, moderately weathered, medium hard								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate		ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-66
Project	Blennerhassett Bridge	Date Started	10/5/2001
Boring Location	Station 2108+80 Offset 30.0 Rt.	Date Completed	11/7/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		39% Gray, fine to medium grained SILTY SANDSTONE, few 0.1'-0.3' thick clay shale laminations, thin micaceous laminations, thinly bedded, moderately weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
526.22	72.7		5	NX	71.0-76.0		100	52	3	
		Gray, medium to coarse grained SANDSTONE, micaceous inclusions, thin laminations, medium to thick bedded, slightly weathered, limey above 77.1', medium hard								
		11.8 RQD 81%	6	NX	76.0-81.0		100	100	3	
			7	NX	81.0-86.0		100	94	3-2	
514.42	84.5									
513.72	85.2	0.5 Gray, SILTY CLAY SHALE, laminated, highly weathered, swell ????? slickensided surfaces present various angles, extremely soft - soft								
		3.9 RQD 0%	8	NX	86.0-91.0		100	88	2-0	
512.12	86.8	0.3 Slightly weathered, medium hard, siltstone laminations at 84.6'-85.2'								
510.52	88.4	Limestone laminations at 86.4'-86.8', highly weathered								
		Dark gray, gray, reddish brown, ?????? mottled SILTY CLAYSTONE, medium to thickly bedded, highly to completely weathered, slickensided surfaces 20°-55° (1 at 80°) from horizontal space sporadically, soft - extremely soft	9	NX	91.0-96.0		100	88	2-0	
		20.0 RQD 0%	10	NX	96.0-101.0		100	86	2-0	
			11	NX	101.0-106.0		100	70	1-0	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate		ft.
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-66
Project	Blennerhassett Bridge	Date Started	10/5/2001
Boring Location	Station 2108+80 Offset 30.0 Rt.	Date Completed	11/7/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
490.52	108.4		12	NX	106.0-111.0		100	84	3	
489.32	109.6	1.2 RQD 83% Gray, SANDY SILTSTONE, limey inclusions, medium bedded, slightly weathered, medium hard								
483.62	115.3	5.7 RQD 0% Reddish brown, SILTY CLAY SHALE, laminated, highly weathered, slickensided surfaces 40°-50° from horizontal, spaced sporadically, medium hard	13	NX	111.0-116.0		92	60	3	
477.92	121.0	5.7 RQD 0% Reddish brown to gray, SILTY CLAYSTONE, thick bedded, highly to completely weathered, color change to gray at 119.6', slickensided surfaces 25°-45° from horizontal, spaced sporadically, medium hard - extremely soft	14	NX	116.0-121.0		100	84	3-0	
		20.0 RQD 4% Reddish brown to gray, CLAY SHALE, laminated, highly weathered, slickensided surfaces 1560° from horizontal, spaced sporadically, extremely soft - medium hard	15	NX	121.0-126.0		94	58	0-3	
			16	NX	126.0-131.0		100	70	0-2	
			17	NX	131.0-136.0		84	30	0-1	
			18	NX	136.0-141.0		60	30	0-3	

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate ____ ft.
At Completion ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-66
Project	Blennerhassett Bridge	Date Started	10/5/2001
Boring Location	Station 2108+80 Offset 30.0 Rt.	Date Completed	11/7/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
457.92	141.0	BORING COMPLETED @ 141.0'								

General Notes

Driller Penn. Drill
Rig No.
Rig Type Track
Method NX/SS

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Water Level Obserations

Immediate ft.
At Completion ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/27/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-72
Project	Blennerhassett Bridge	Date Started	11/12/2001
Boring Location	Station 2140+43 Offset 35.0 Lt.	Date Completed	11/12/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
584.17	0.0									
583.67	0.5	0.5 TOPSOIL	1	SS	0.0-1.5	1-2-2 (4)	100			
		Brown, fine to medium SAND, trace organics (roots), trace gravel 5.0'-10.0', moist, very loose - loose								
			2	SS	5.0-6.5	5-3-5 (8)	80			
		19.5	3	SS	10.0-11.5	3-3-3 (6)	67			
			4	SS	15.0-16.5	3-4-6 (10)	100			
564.17	20.0									
		Brown, fine to coarse SAND, trace gravel, saturated, medium dense	5	SS	20.0-21.5	5-5-4 (9)	100			
			6	SS	25.0-26.5	11-14-11 (25)	100			
		15.0	7	SS	30.0-31.5	7-7-10 (17)	93			
549.17	35.0									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type:
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-72
Project	Blennerhassett Bridge	Date Started	11/12/2001
Boring Location	Station 2140+43 Offset 35.0 Lt.	Date Completed	11/12/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
548.57	35.6	0.6 RQD 0% Gray, fine SILTY SANDSTONE, thinly bedded, moderately weathered, medium hard	8	SS	35.0-35.1	50/0.1	0	44	3-2	
			1	NX	35.1-36.0		100			
		Reddish brown and gray to reddish brown, SILTY CLAYSTONE, thick bedded, highly to completely weathered, color change to reddish brown at 40.0', slickensided surfaces 40°-70° from horizontal (spaced 0.2'-0.8' apart), extremely soft - soft	2	NX	36.0-41.0		100	86	0-1	
		12.4 RQD 0%	3	NX	41.0-46.0		100	80	0-1	
536.17	48.0		4	NX	46.0-51.0		100	84	1-3	
		Gray, fine to medium grained SILTY SANDSTONE, limey inclusions and bedded, slightly weathered, medium hard								
		4.6 RQD 91%	5	NX	51.0-56.0		100	100	3	
531.57	52.6									
		2.6 RQD 58% Gray, SILTSTONE, little fine sand, medium bedded, slightly weathered, limey inclusions, medium hard								
528.97	55.2									
		Gray, fine grained SANDSTONE, medium bedded, slightly weathered, silty claystone laminations from 57.0' to 58.2', medium hard	6	NX	56.0-61.0		100	94	3-2	
		10.8 RQD 62%	7	NX	61.0-66.0		100	96	3	
518.17	66.0									
		BORING COMPLETED @ 66.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type:
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-73
Project	Blennerhassett Bridge	Date Started	11/6/2001
Boring Location	Station 2140+43 Offset 40.0 Rt.	Date Completed	11/7/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
586.24	0.0									
585.24	1.0	1.0 TOPSOIL Brown, SILTY CLAY, trace organics (roots), moist, stiff - very stiff	1	SS	0.0-1.5	2-2-2 (4)	100			
		5.0								
581.24	5.0	Brown, fine SILTY SAND, moist, loose	2	SS	5.0-6.5	3-3-3 (6)	100			
		5.0								
576.24	10.0	Brown, fine to coarse SAND, trace gravel, moist - wet, saturated below 20.0'	3	SS	10.0-11.5	6-6-4 (10)	100			
			4	SS	15.0-16.5	3-5-7 (12)	100			
			5	SS	20.0-21.5	8-9-11 (20)	100			
		25.0								
			6	SS	25.0-26.5	9-19-10 (29)	100			
			7	SS	30.0-31.5	15-29-18 (47)	100			
551.24	35.0									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: 20 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-73
Project	Blennerhassett Bridge	Date Started	11/6/2001
Boring Location	Station 2140+43 Offset 40.0 Rt.	Date Completed	11/7/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
548.34	37.9	2.9 RQD 0% Gray, fine SILTY SANDSTONE, medium bedded, slightly weathered, medium hard	8 1	SS NX	35.0-35.0 35.0-38.0	50/0.0	0 73	23	3	
537.34	48.9	11.0 RQD 0% Dark gray to reddish brown, SILTY CLAYSTONE, medium to thick bedded, highly to completely weathered, color changes from gray to reddish brown at 41.0', slickensided surfaces 20°-40° from horizontal (spaced 0.2'-0.6'), extremely soft - soft	2	NX	38.0-43.0		100	88	0-2	
			3	NX	43.0-48.0		88	84	1-2	
532.14	54.1	5.2 RQD 98% Gray, fine to medium grained SILTY SANDSTONE, limey inclusions, medium bedded, faintly weathered, medium hard	4	NX	48.0-53.0		100	82	0-3	
529.44	56.8	2.7 RQD 93% Gray, SILTSTONE, little fine sand, medium bedded, faintly weathered, limey inclusions, medium hard	5	NX	53.0-58.0		100	96	3	
527.04	59.2	1.7 Gray, fine to medium grained SANDSTONE, medium bedded, slightly weathered, medium hard Silty claystone laminations from 57.3'-59.2'	6	NX	58.0-63.0		100	90	3	
523.24	63.0	6.2								
		BORING COMPLETED @ 63.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 20 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	**B-74**
Project	Biennerhassett Bridge	Date Started	11/13/2001
Boring Location	Station 2140+77 Offset 35.0 Lt.	Date Completed	11/14/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
583.27	0.0	Brown, fine to medium SAND and GRAVEL, trace cobbles, moist, loose - medium dense	1	SS	0.0-1.5	3-2-4 (6)	67			
			2	SS	5.0-6.5	3-3-5 (8)	87			
		15.0	3	SS	10.0-11.5	6-6-12 (18)	20			
568.27 ▽	15.0									
		Brown, medium to coarse SAND, some cobbles at 20.0'-25.0', saturated, medium dense	4	SS	15.0-16.5	8-5-9 (14)	100			
		5.0								
563.27	20.0		5	SS	20.0-21.5	20-16-18 (34)	100			
		Gray, SILTY CLAY SHALE, trace fine grained sandstone laminations, laminated, highly weathered, extremely soft	6	SS	25.0-25.4	50/0.4	100			
		10.2 RQD 0%	7 1	SS NX	30.0-30.0 30.0-35.0	50/0.0	0 100	88	2-3	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	15	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-74
Project	Blennerhassett Bridge	Date Started	11/13/2001
Boring Location	Station 2140+77 Offset 35.0 Lt.	Date Completed	11/14/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
548.07	35.2	Reddish brown, SILTY CLAYSTONE, thick bedded, highly to completely weathered, slickensided surfaces 40°-60° from horizontal, spaced 0.1'-0.5', soft - extremely soft	2	NX	35.0-40.0		94	90	1-2	
		12.5 RQD 0%	3	NX	40.0-45.0		100	90	1-0	
535.57	47.7		4	NX	45.0-50.0		100	32	0-3	
		Gray, fine to coarse grained SANDSTONE, medium bedded, slightly weathered, clayey siltstone, laminations at 48.6'-49.5', 54.5'-54.6', and 56.8'-57.9', medium hard	5	NX	50.0-55.0		100	96	3	
		20.8 RQD 75%	6	NX	55.0-60.0		100	94	3-1	
			7	NX	60.0-65.0		98	90	3	
514.77	68.5		8	NX	65.0-70.0		100	80	3	
		Gray, CLAYEY SILTSTONE, medium to thick bedded, moderately weathered,, medium hard								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	15	ft. ▽
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-74
Project	Blennerhassett Bridge	Date Started	11/13/2001
Boring Location	Station 2140+77 Offset 35.0 Lt.	Date Completed	11/14/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
510.17	73.1	7.4 RQD 49% Gray, CLAYEY SILTSTONE, medium to thick bedded, moderately weathered,, medium hard *(LAYER CONTINUED - DESCRIPTION REPEATED)* High ???? clay at 71.8'-73.1	9	NX	70.0-75.0		100	76	3-2	
507.37	75.9	1.1	10	NX	75.0-80.0		100	64	3-0	
502.27	81.0	5.1 RQD 0% Gray, reddish brown and gray, mottled SILTY CLAYSTONE, medium bedded, slickensided surfaces 10°-40° from horizontal, spaced 0.2'-0.4' apart, extremely soft - soft	11	NX	80.0-85.0		100	90	0-3	
495.67	87.6	6.6 RQD 65% Gray, SILTSTONE, limey inclusions, medium bedded, slightly weathered, few claystone laminations bottom 2.0', medium hard	12	NX	85.0-90.0		100	80	3-0	
487.37	95.9	8.3 RQD 0% Gray, reddish brown, SILTY CLAYSTONE, medium bedded, highly weathered, slickenside surfaces 0°-60° from horizontal spaced 0.02'-0.9', some silt laminations present 93.5'-94.7', soft - extremely soft	13	NX	90.0-95.0		88	34	0-3	
480.47	102.8	6.9 RQD 84% Gray, SANDY SILTSTONE, with fine grained sand ??? at 96.6'-97.4', 98.2'-98.9' and 99.4'-99.8', medium bedded, slightly weathered, medium hard	14	NX	95.0-100.0		100	74	3	
478.27	105.0	2.2 RQD 50% Gray and reddish brown, CLAYEY SILT SHALE, laminated, slightly to completely weathered, medium hard - extremely soft	15	NX	100.0-105.0		100	70	3-0	

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 15 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-74
Project	Blennerhassett Bridge	Date Started	11/13/2001
Boring Location	Station 2140+77 Offset 35.0 Lt.	Date Completed	11/14/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		BORING COMPLETED @ 105.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: 15 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-75
Project	Blennerhassett Bridge	Date Started	11/7/2001
Boring Location	Station 2140+77 Offset 40.0 Rt.	Date Completed	11/9/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
588.68	0.0	0.0 TOPSOIL	1	SS	0.0-1.5	2-3-3 (6)	100			
		Reddish brown, LEAN CLAY, little sand, trace gravel, moist, medium stiff								
		10.0	2	SS	5.0-6.5	3-3-3 (6)	87			
578.68	10.0	Brown, fine to coarse SAND, little gravel, trace clay, moist, loose - medium dense	3	SS	10.0-11.5	4-3-3 (6)	100			
			4	SS	15.0-16.5	6-5-5 (10)	87			
		15.0	5	SS	20.0-21.5	7-6-6 (12)	80			
563.68	25.0	Gray, SILTY CLAYSTONE, thick bedded, highly to completely weathered, extremely soft - medium hard	6	SS	25.0-26.5	21-42-49 (91)	100			
			7	SS	30.0-30.5	50/0.5	40			
		12.7 RQD 0%	1	NX	30.5-33.0		80	0	3-1	
			2	NX	33.0-38.0		100	54	0-3	

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	15	ft. ▽
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-75
Project	Blennerhassett Bridge	Date Started	11/7/2001
Boring Location	Station 2140+77 Offset 40.0 Rt.	Date Completed	11/9/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
550.98	37.7	Gray, SILTY CLAYSTONE, thick bedded, highly to completely weathered, extremely soft - medium hard ***(LAYER CONTINUED DESCRIPTION REPEATED)***								
550.08	38.6	0.9 RQD 33% Gray, fine grained SANDSTONE, thickly bedded, moderately weathered, highly fractured, medium hard	3	NX	38.0-42.0		125	38	3-0	
		Reddish brown, SILTY CLAYSTONE, thick bedded, highly weathered, slickensided surfaces 20°-60° from horizontal present below 47.5', spaced 0.2'-0.5' apart, extremely soft - soft								
		12.6 RQD 0%	4	NX	43.0-48.0		100	96	2	
537.48	51.2		5	NX	48.0-53.0		100	96	2-3	
		Gray, fine to medium grained SILTY SANDSTONE, limey inclusions, medium bedded, faintly weathered, medium hard								
		5.3 RQD 98%	6	NX	53.0-58.0		100	100	3	
532.18	56.5									
530.48	58.2	1.7 RQD 76% Gray, SILTSTONE, little fine sand, medium bedded, faintly weathered, limey inclusions, medium hard								
		Gray, fine to medium grained SANDSTONE, medium bedded, slightly weathered, medium hard	7	NX	58.0-63.0		80	68	3	
526.88	61.8	0.6 Silty claystone laminations from 61.0'-61.8'								
526.18	62.5	6.9 RQD 78% 0.6 Near vertical fractures 61.8'-62.5'								
			8	NX	63.0-67.0		100	100	3	
523.58	65.1									
		Gray, medium to coarse SANDSTONE, medium bedded, moderately to slightly weathered, micaceous laminations, medium hard								
		7.3 RQD 99%	9	NX	67.0-72.0		100	100	3	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	15	ft. ▽
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-75
Project	Blennerhassett Bridge	Date Started	11/7/2001
Boring Location	Station 2140+77 Offset 40.0 Rt.	Date Completed	11/9/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
516.28	72.4									
		2.6 RQD 65% Gray, SILTY SHALE, laminated, slightly weathered, medium hard	10	NX	72.0-77.0		100	140	3	
513.68	75.0									
		1.7 RQD 0% Gray and reddish brown, SILTY CLAY SHALE, moderately weathered, completely fractured, medium hard								
511.98	76.7									
		2.5 RQD 76% Gray, SILTSTONE, medium bedded, slightly weathered, medium hard	11	NX	77.0-82.0		78	72	3	
509.48	79.2									
		4.8 RQD 8% Dark gray and reddish brown, SILTY CLAYSTONE, thinly bedded, slightly weathered, slickensided surfaces 10°-30° from horizontal, spaced 0.1'-0.6', medium hard	12	NX	82.0-87.0		100	66	0-3	
504.68	84.0									
		2.7 RQD 74% Reddish brown to gray, CLAYEY SILTSTONE, some limey inclusions, color change to gray at 84.5', moderately weathered, medium hard								
501.98	86.7									
		6.3 RQD 106% Gray, SILTSTONE, medium bedded, slightly weathered, thin claystone laminations, increase frequency with depth, medium hard	13	NX	87.0-92.0		92	82	3	
495.68	93.0		14	NX	92.0-97.0		70	14	3-0	
		6.1 RQD 0% Reddish brown, SILTY CLAYSTONE, medium bedded, completely to highly weathered, slickensides surfaces 20°-40° from horizontal about 0.5' apart, medium hard	15	NX	97.0-102.0		94	48	1-3	
489.58	99.1									
		7.9 RQD 85% Gray, SANDY SILTSTONE, with fine grained sandstone interbeds at 100.3'-100.8' and 101.7'-102.0', medium bedded, slightly weathered, medium hard	16	NX	102.0-107.0		100	90	3	

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 15 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-75
Project	Blennerhassett Bridge	Date Started	11/7/2001
Boring Location	Station 2140+77 Offset 40.0 Rt.	Date Completed	11/9/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
481.68	107.0									
477.18	111.5	4.5 RQD 40% Gray and reddish brown, CLAYEY SILT SHALE, laminated, slightly to completely weathered, clay content increases with depth\, medium hard - extremely soft	17	NX	107.0-112.0		100	56	3-0	
468.28	120.4	8.9 RQD 61% Reddish brown, SILTY CLAYSTONE, thick bedded, slightly weathered, slickensided surfaces 20°-45° from horizontal spaced 0.3'-0.8', medium hard	18	NX	112.0-117.0		94	76	3	
			19	NX	117.0-122.0		100	68	3-0	
461.68	127.0	6.6 RQD 0% Gray, SILTY CLAYSTONE, thick bedded, completely to highly weathered, limey inclusions, extremely soft - soft	20	NX	122.0-127.0		100	76	0-2	
		BORING COMPLETED @ 127.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: 15 ft. ▽
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-76
Project	Blennerhassett Bridge	Date Started	11/14/2001
Boring Location	Station 2141+65 Offset 35.0 Lt.	Date Completed	11/15/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
595.14	0.0									
594.94	0.2	0.2 TOPSOIL Brown, LEAN CLAY with gravel (rounded river) trace organics (roots), moist, medium stiff	1	SS	0.0-1.5	2-2-6 (8)	20			
		9.8	2	SS	5.0-6.5	4-5-5 (10)	87			
585.14	10.0	Reddish brown, LEAN CLAY, little gravel, dry, hard	3	SS	10.0-11.5	16-19-25 (44)	100			4.5
		5.0								
580.14	15.0	Gray and brown, CLAYEY SILT SHALE, laminated, completely to highly weathered, extremely soft - medium hard	4	SS	15.0-16.5	50/0.4	27			
		6.5 RQD 0%	5	SS	20.0-20.4	50/0.4	100			
573.64	21.5		1	NX	20.4-21.0		100	0	3	
		Gray, SILTY CLAY SHALE, laminated, highly to completely weathered, very soft - extremely soft	2	NX	21.0-26.0		100	24	3-0	
		3.0 RQD 0%								
570.64	24.5									
569.34	25.8	Black, COAL 1.3								
		Gray, SILTY CLAY SHALE, siltstone layer at 26.3'-27.1', carbonaceous at 28.6'-30.4', laminated, slightly to completely weathered, slickensided surfaces 20° from horizontal at 31.0', medium hard - extremely soft	3	NX	26.0-31.0		96	44	3-0	
		5.7 RQD 14%								
563.64	31.5		4	NX	31.0-36.0		100	94	2-3	
		Gray, fine to medium grained SANDSTONE, limey inclusions, slightly weathered, fractured at 70° from horizontal at 32.1'-32.9', near vertical fractures 24.2'-36.4', medium hard								
		6.1 RQD								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Trck
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: Dry ft.
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-76
Project	Blennerhassett Bridge	Date Started	11/14/2001
Boring Location	Station 2141+65 Offset 35.0 Lt.	Date Completed	11/15/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		31% Gray, fine to medium grained SANDSTONE, limey inclusions, slightly weathered, fractured at 70° from horizontal at 32.1'-32.9', near vertical fractures 24.2'-36.4', medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
557.54	37.6		5	NX	36.0-41.0		84	76	3	
		Gray, SILTSTONE, thick bedded, slightly weathered, fractured 60°-70° from horizontal at 42.1', 43.1', and 44.9', medium hard								
		8.6 RQD 70%	6	NX	41.0-46.0		100	92	3	
548.94	46.2									
		Reddish brown, SILTY CLAYSTONE, thick bedded, highly to completely weathered, slickensided surfaces 20°-60° from horizontal spaced 0.1'-0.3', soft - extremely soft	7	NX	46.0-51.0		100	66	0	
		13.1 RQD 0%	8	NX	51.0-56.0		100	46	1-2	
			9	NX	56.0-61.0		92	62	0-3	
535.84	59.3									
		Gray, fine to coarse grained SANDSTONE, medium bedded, slightly to faintly weathered, clayey siltstone laminations at 63.9'-64.2', 65.8'-66.5', 68.9'-69.8', slickensided surfaces 10°-60° from horizontal located within the clayey siltstone, medium hard, coarse grained below 73.7'	10	NX	61.0-66.0		96	92	3	
			11	NX	66.0-71.0		100	92	3	
		21.1								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Trck
Method	NX/SS

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Water Level Observations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-76
Project	Blennerhassett Bridge	Date Started	11/14/2001
Boring Location	Station 2141+65 Offset 35.0 Lt.	Date Completed	11/15/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		RQD 82% Gray, fine to coarse grained SANDSTONE, medium bedded, slightly to faintly weathered, clayey siltstone laminations at 63.9'-64.2', 65.8'-66.5', 68.9'-69.8', slickensided surfaces 10°-60° from horizontal located within the clayey siltstone, medium hard, coarse grained below 73.7' *(LAYER CONTINUED DESCRIPTION REPEATED)*	12	NX	71.0-76.0		100	96	3	
			13	NX	76.0-81.0		100	100	3	
514.74	80.4									
514.14	81.0	0.6 RQD 67% Gray, SILTY CLAYSTONE, medium to thick bedded, slightly weathered, medium hard BORING COMPLETED @ 81.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Trck
Method: NX/SS

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Water Level Observations

Immediate: Dry ft.
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-77
Project	Blennerhassett Bridge	Date Started	11/12/2001
Boring Location	Station 2141+65 Offset 40.0 Rt.	Date Completed	11/12/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
594.86	0.0									
594.26	0.6	0.6 TOPSOIL								
		Reddish brown, LEAN CLAY, some sand, some gravel, moist, stiff - very stiff	1	SS	0.0-1.5	3-4-6 (10)	100			3.5
			2	SS	5.0-6.5	6-9-12 (21)	87			3
		14.4								
			3	SS	10.0-11.5	9-13-19 (32)	100			4.25
579.86	15.0									
		Gray, SILTY CLAY SHALE, carbonaceous 24.3'-30.0', coal at 28.6'-28.8', trace fine grained sandstone laminations, laminated, highly weathered, slickensided surfaces 15°-45° from horizontal, spaced 0.2'-0.8', extremely soft - soft	4	SS	15.0-15.5	50-50/0.0	40			
			5	SS	20.0-20.3	50/0.3	0			
			1	NX	20.3-23.0		89	67	1-2	
		17.0 RQD 0%								
			2	NX	23.0-28.0		100	60	0-1	
			3	NX	28.0-33.0		100	88	0-3	
562.86	32.0									
		Gray, SILTSTONE, limey inclusions, medium bedded, slightly weathered, medium hard								
		4.1 RQD 71%	4	NX	33.0-38.0		100	98	3-2	

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Observations

Immediate: Dry ft.
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-77
Project	Blennerhassett Bridge	Date Started	11/12/2001
Boring Location	Station 2141+65 Offset 40.0 Rt.	Date Completed	11/12/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
558.76	36.1									
		Gray, CLAYEY SILTSTONE, medium bedded, slightly to highly weathered, extremely soft - soft	5	NX	38.0-43.0		92	84	2-3	
		9.5 RQD 45%	6	NX	43.0-48.0		100	88	3-0	
549.26	45.6									
		Reddish brown, SILTY CLAYSTONE, thick bedded, slightly to completely weathered, slickensided surfaces 25°-55° from horizontal spaced 0.3'-0.6', medium hard - extremely soft	7	NX	48.0-53.0		98	88	2-3	
		12.4 RQD 0%	8	NX	53.0-58.0		100	74	2-0	
536.86	58.0									
		Gray, fine to medium grained SANDSTONE, thick bedded, slightly to faintly weathered, siltstone layers 63.0'-64.9', 68.0'-69.1', and 70.2'-70.8', medium hard - hard	9	NX	58.0-63.0		100	96	3	
			10	NX	63.0-68.0		100	100	3	
		22.3 RQD	11	NX	68.0-73.0		100	100	3	

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: Dry ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-77
Project	Blennerhassett Bridge	Date Started	11/12/2001
Boring Location	Station 2141+65 Offset 40.0 Rt.	Date Completed	11/12/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		91% Gray, fine to medium grained SANDSTONE, thick bedded, slightly to faintly weathered, siltstone layers 63.0'-64.9', 68.0'-69.1', and 70.2'-70.8', medium hard - hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
			12	NX	73.0-78.0		100	100	3	
			13	NX	78.0-81.0		113	100	3	
514.56	80.3									
513.86	81.0	0.7 Gray, SILTSTONE, medium bedded, slightly weathered, medium hard								
		RQD 100% BORING COMPLETED @ 81.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-78
Project	Blennerhassett Bridge	Date Started	11/14/2001
Boring Location	Station 2141+92 Offset 35.0 Lt.	Date Completed	11/14/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
599.55	0.0	
599.05	0.5	0.5 TOPSOIL
		Brown, SAND and GRAVEL, moist, very dense
		9.5
589.55	10.0	
		3.5 RQD 0% Gray and brown, CLAYEY SILT SHALE, laminated, completely to highly weathered, extremely soft - very soft
586.05	13.5	
		5.5 RQD 0% Gray, SILTY CLAY SHALE, laminated, highly weathered, very soft - extremely soft
580.55	19.0	
		6.7 RQD 0% Gray, interbedded CLAYEY SILT SHALE and fine to medium grained SANDSTONE, interbedded at approximately 50/50, slightly weathered, medium hard
573.85	25.7	
		3.3 RQD 0% Gray, SILTY CLAY SHALE, carbonaceous at 28.6'-29.0', highly weathered, slickensided surfaces 20° from horizontal, extremely soft - soft
570.55	29.0	
569.55	30.0	1.0 Black, COAL
		2.2 RQD 82% Gray, fine grained SILTY SANDSTONE, medium bedded, slightly weathered, fossils present, medium hard
567.35	32.2	
		5.0 RQD Gray, SILTY CLAYSTONE, medium bedded, moderately weathered, slickensided surfaces 15°-30° from horizontal, spaced sporadically, soft - medium hard

SAMPLE

NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	3-4-4 (8)	20			
2	SS	5.0-5.3	50/0.3	100			
3	SS	10.0-10.9	17-50/0.4	67			
1	NX	10.9-13.0		95	57	1	
2	NX	13.0-18.0		88	86	1-2	
3	NX	18.0-23.0		98	66	3	
4	NX	23.0-28.0		80	58	3-0	
5	NX	28.0-33.0		100	100	3	
6	NX	33.0-38.0		98	92	2-3	

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	Dry	ft.
At Completion	12.3	ft. ▽
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-78
Project	Blennerhassett Bridge	Date Started	11/14/2001
Boring Location	Station 2141+92 Offset 35.0 Lt.	Date Completed	11/14/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		0%								
562.35	37.2									
561.55	38.0	0.8 RQD 100% Gray, fine to medium grained SANDSTONE, limey inclusions, medium bedded, slightly weathered, medium hard								
		BORING COMPLETED @ 38.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: Dry ft.
At Completion: 12.3 ft. ▽
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-79
Project	Blennerhassett Bridge	Date Started	11/13/2001
Boring Location	Station 2141+90 Offset 45.0 Rt.	Date Completed	11/13/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
603.33	0.0									
602.83	0.5	0.5 TOPSOIL	1	SS	0.0-1.5	3-4-4 (8)	100			1.75
		Reddish brown, LEAN CLAY, trace sand, trace organics (roots), moist, medium stiff								
		4.5								
598.33	5.0									
		Reddish brown, SILTY CLAY, some gravel, some sand, dry, hard	2	SS	5.0-6.5	7-9-13 (22)	87			4.5
		5.0								
593.33	10.0									
		Brown, fine to coarse SAND and GRAVEL, dry, very dense	3	SS	10.0-11.5	21-36-29 (65)	87			
		5.0								
588.33	15.0									
		Gray, CLAYEY SILT SHALE, few fine to medium grained sandstone laminations, laminated, completely to slightly weathered, extremely soft - medium hard	4	SS	15.0-15.6	30-50/0.1	100			
			1	NX	15.6-18.0		67	0	3	
			2	NX	18.0-23.0		100	80	3-0	
		15.5 RQD 17%								
			3	NX	23.0-28.0		100	92	2-3	
			4	NX	28.0-33.0		100	92	3-0	
572.83	30.5									
		Gray, SILTY CLAY SHALE, coal at 33.3'-33.6', laminations, highly to moderately weathered, extremely soft - medium hard.								
		3.9 RQD 0%	5	NX	33.0-38.0		100	82	3-1	
568.93	34.4									

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Truck
Method: NX/SS

H.C. NUTTING COMPANY

912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711

EMPLOYEE OWNED

GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: Dry ft.
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-79
Project	Biennerhassett Bridge	Date Started	11/13/2001
Boring Location	Station 2141+90 Offset 45.0 Rt.	Date Completed	11/13/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
567.53	35.8	1.4 Gray, SANDY SILT SHALE, laminated, slightly to faintly weathered, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
		3.5 RQD 0% Gray, SILTY CLAY SHALE, carbonaceous 36.4'-38.4', coal at 36.4'-36.5', pyrite inclusions, laminations, highly weathered, slickenside surface 20°-60° from horizontal, not spaced at angle intervals, extremely soft - soft	6	NX	38.0-43.0		100	96	2-1	
564.03	39.3									
		3.7 RQD 95% Ray, medium grained SANDSTONE, limey, limey inclusions, medium bedded, moderately to slightly weathered, medium hard - hard								
560.33	43.0	BORING COMPLETED @ 43.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Truck
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/28/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-80
Project	Blennerhassett Bridge	Date Started	11/14/2001
Boring Location		Date Completed	11/15/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
0.00	0.0	Brown, clay, sand and gravel, trace organics (FILL), moist	1	SS	0.0-1.5	4-4-5 (9)	87			
			2	SS	5.0-6.5	10-12-16 (28)	67			
-10.00	10.0	10.0								
		Reddish brown, LEAN CLAY, dry, hard	3	SS	10.0-11.5	17-27-40 (67)	87			4.5
-15.00	15.0	5.0								
		Gray, CLAYEY SILT SHALE, few fine to medium grained sandstone locations, laminated, slightly weathered, highly fractured (horizontal), near vertical fracturing 24.3'-25.1', medium hard	4 1	SS NX	15.0-15.0 15.0-18.0	50/0.0	0 60	33		
			2	NX	18.0-23.0		92	72		
		18.0 RQD 0%	3	NX	23.0-28.0		100	66		
			4	NX	28.0-33.0		80	22		
-33.00	33.0									
-34.30	34.3	1.3 Black, COAL	5	NX	33.0-38.0		88	70		

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type:
Method: NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: Dry ft.
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-80
Project	Blennerhassett Bridge	Date Started	11/14/2001
Boring Location		Date Completed	11/15/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray, SILTY CLAY SHALE, silt shale layer 23.2'-36.2', carbonaceous 38.0'-39.0', laminated, slightly to completely weathered, slickensided surfaces 35° from horizontal at 40.0', medium hard - extremely soft ***(LAYER CONTINUED DESCRIPTION REPEATED)*** 6.2 RQD 0%								
-40.50	40.5		6	NX	38.0-43.0		100	80		
		Gray, SANDY SILTSTONE, thick bedded, slightly to moderately weathered, limey inclusions (near top), highly fractured (near vertically) 51.9'-55.0', medium hard 15.3 RQD 67%	7	NX	43.0-48.0		100	100		
			8	NX	48.0-53.0		100	84		
-55.80	55.8		9	NX	53.0-58.0		98	58		
		Reddish brown, SILTY CLAYSTONE, thick bedded, highly to completely weathered, slickensided surfaces 20°-60° from horizontal spaced 0.1'-0.5', soft - extremely soft 11.3 RQD 0%	10	NX	58.0-63.0		82	62		
			11	NX	63.0-68.0		100	74		
-67.10	67.1									
		Gray, fine grained SILTY SANDSTONE, medium bedded, slightly to faintly weathered, limey inclusions, medium hard 5.9	12	NX	68.0-73.0		100	100		

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type:
Method: NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-80
Project	Blennerhassett Bridge	Date Started	11/14/2001
Boring Location		Date Completed	11/15/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
-73.00	73.0	RQD 100% Gray, fine grained SILTY SANDSTONE, medium bedded, slightly to faintly weathered, limey inclusions, medium hard *(LAYER CONTINUED DESCRIPTION REPEATED)*								
		BORING COMPLETED @ 73.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type:
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate: Dry ft.
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-81
Project	Blennerhassett Bridge	Date Started	11/13/2001
Boring Location	Station 2142+17.5 Offset 45.0 Rt.	Date Completed	11/13/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
609.64	0.0	Dark brown, clay cinders sand (FILL), moist	1	SS	0.0-1.5	3-6-9 (15)	53			
		6.0								
603.64	6.0	Reddish brown, LEAN CLAY, moist, very stiff	2	SS	5.0-6.5	8-10-12 (22)	100			
		9.0	3	SS	10.0-11.5	19-29-31 (60)	100			4.5
594.64	15.0	Gray, CLAYEY SILT SHALE, few fine to medium grained sandstone laminations, laminated, completely to slightly weathered, highly fractured 18.0'-21.0', medium grained sandstone 30.1'-30.9', extremely soft - medium hard	4	SS	15.0-15.2	20/0.2	0			
			1	NX	15.2-18.0		71	54	3	
			2	NX	18.0-23.0		100	62	3-2	
		16.7 RQD 28%	3	NX	23.0-28.0		98	84	3	
577.94	31.7		4	NX	28.0-33.0		100	76	3-2	
			5	NX	33.0-38.0		100	88	2	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion	7.3	ft. ▽
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-81
Project	Blennerhassett Bridge	Date Started	11/13/2001
Boring Location	Station 2142+17.5 Offset 45.0 Rt.	Date Completed	11/13/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		9.5 RQD 0% Gray, SILTY CLAY SHALE, carbonaceous at 38.0'-39.9' coal at 38.1'-38.2', laminated, highly to moderately weathered, slickensided surfaces 0°-55° from horizontal spaced 0.2'-0.5' approximately, extremely soft - medium hard ***(LAYER CONTINUED DESCRIPTION REPEATED)***								
			6	NX	38.0-43.0		100	90	3	
568.44	41.2									
		1.8 RQD 83% Gray, fine to medium grained SANDSTONE, limey inclusions, medium bedded, slightly weathered, medium hard								
566.64	43.0	BORING COMPLETED @ 43.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion	7.3	ft. ▽
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 11/29/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-82
Project	Blennerhassett Bridge	Date Started	12/3/2001
Boring Location	Station 2143+66 Offset 115.0 Lt.	Date Completed	12/3/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
632.72	0.0	0.0 2.8' dozer cut Reddish brown, lean clay (FILL), some silt, some rock fragments (angular, gravel, sandstone), moist, stiff - hard	1	SS	0.0-1.5	3-5-9 (14)	100			
			2	SS	5.0-6.5	32-38-40 (78)	100			
622.72	10.0	10.0								
		Grayish brown, SANDSTONE, fine to medium grained, micaceous, moderately weathered, medium hard	3	SS	10.0-10.7	47-50/0.2	86			
		9.1	4	SS	15.0-15.7	48-50/0.2	71			
			1	NX	15.7-16.5		75	0	3	
613.62	19.1		2	NX	16.5-21.5		86	34	3-2	
		Grayish brown, SANDY SHALE, moderately to highly weathered, soft								
611.42	21.3	2.2								
		Gray, SILTY CLAYSTONE, highly weathered, extremely soft	3	NX	21.5-26.5		100	64	0-3	
608.92	23.8	2.5								
		Brown and gray, SANDSTONE, fine grained with many clay interbeds, moderately to highly weathered, soft - medium hard								
606.12	26.6	2.8								
		Gray and reddish brown, SILTY CLAYSTONE, some horizontal fractures, slickensided surfaces (5°-20°), highly weathered, extremely soft - very soft	4	NX	26.5-31.5		100	96	0-1	
		9.9	5	NX	31.5-36.5		92	92	0-1	

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
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Water Level Observations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	15.7	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/7/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-82
Project	Blennerhassett Bridge	Date Started	12/3/2001
Boring Location	Station 2143+66 Offset 115.0 Lt.	Date Completed	12/3/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
596.22	36.5	BORING COMPLETED @ 36.5'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	15.7	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/7/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-83
Project	Blennerhassett Bridge	Date Started	11/20/2001
Boring Location	Station 2143+70 Offset 115.0 Rt.	Date Completed	11/21/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
654.47	0.0	Reddish brown, lean clay (FILL), some gravel and rock fragments, trace organics, moist	1	SS	0.0-1.5	3-4-4 (8)	67			4.5
			2	SS	5.0-6.5	5-5-6 (11)	100			4.5
			3	SS	10.0-11.5	5-5-7 (12)	67			4.5
			4	SS	15.0-16.5	4-5-5 (10)	100			3
			5	SS	20.0-21.5	5-35-5 (40)	60			3.75
629.47	25.0	25.0								
		Reddish brown, SILTY CLAY, moist, very stiff	6	SS	25.0-26.5	6-10-16 (26)	100			4.5
623.97	30.5	5.5								
		Mottled brown and gray, fine SILTY SAND, moist, loose - medium dense	7	SS	30.0-31.5	5-5-14 (19)	100			
619.47	35.0	4.5								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type:
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate ft.
At Completion ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-83
Project	Blennerhassett Bridge	Date Started	11/20/2001
Boring Location	Station 2143+70 Offset 115.0 Rt.	Date Completed	11/21/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, interbedded fine to medium grained SANDSTONE and SILTSTONE, little clay laminations, thinly bedded, highly weathered, highly fractured, extremely soft - medium hard	8	SS	35.0-35.3	50/0.3	100			
			1	NX	35.3-40.3		80	46	3-1	
		11.4 RQD 4%	2	NX	40.3-45.3		96	46	3-1	
608.07	46.4		3	NX	45.3-50.3		100	36	0-2	
		Gray to reddish brown, SILTY CLAYSTONE, medium to thick bedded, completely to slightly weathered, color change at 48.6', slickensided 20°-45° from horizontal (spaced 0.4'-0.7' apart), extremely soft - medium hard	4	NX	50.3-55.3		92	84	3-0	
		13.9 RQD 0%	5	NX	55.3-60.3		100	50	1-2	
594.17	60.3									
		BORING COMPLETED @ 60.3'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type:
Method: NX/SS

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Water Level Observations

Immediate ____ ft.
At Completion ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-84
Project	Blennerhassett Bridge	Date Started	11/27/2001
Boring Location	Station 2143+80 Offset 58.5 Lt.	Date Completed	11/28/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
644.94	0.0	Reddish brown, lean clay (FILL), trace organics (roots), some rock fragments, fiberglass/plastic at 35.0', moist, medium stiff - very stiff	1	SS	0.0-1.5	1-3-6 (9)	73			
			2	SS	5.0-6.5	10-12-19 (31)	100			4.5
			3	SS	10.0-11.5	12-16-21 (37)	100			4.5
			4	SS	15.0-16.5	11-12-15 (27)	100			
	40.0		5	SS	20.0-21.5	8-10-11 (21)	100			2.25
			6	SS	25.0-26.5	4-6-8 (14)	100			2.25
			7	SS	30.0-31.5	4-8-7 (15)	100			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate ft.
At Completion ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-84
Project	Blennerhassett Bridge	Date Started	11/27/2001
Boring Location	Station 2143+80 Offset 58.5 Lt.	Date Completed	11/28/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Reddish brown, lean clay (FILL), trace organics (roots), some rock fragments, fiberglass/plastic at 35.0', moist, medium stiff - very stiff ***(LAYER CONTINUED DESCRIPTION REPEATED)***	8	SS	35.0-36.5	12-14-12 (26)	67			
604.94	40.0									
		Brown and gray, sandy clay (FILL), some rock fragment, moist, very stiff	9	SS	40.0-41.5	8-10-12 (22)	100			
		5.0								
599.94	45.0									
		Reddish brown and gray, SILTY CLAYSTONE, few horizontal and low angle (15°-20°) fractures, highly weathered, extremely soft - very soft	10	SS	45.0-46.0	32-47-50/0.0	80			
			1	NX	46.0-51.0		96	64		
		12.7	2	NX	51.0-56.0		100	66		
587.24	57.7		3	NX	56.0-61.0		100	92		
		Gray, SILTSTONE, laminated, slightly to moderately weathered, soft								
		3.7								
583.54	61.4		4	NX	61.0-66.0		100	70		
		Gray, SILTY SHALE, fissile, moderately weathered, some thin clay interbeds, very soft - soft								
		4.3								
579.24	65.7									
578.94	66.0	0.3 Gray, SANDSTONE, medium grained, slightly weathered, medium hard								
		BORING COMPLETED @ 66.0'								

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate		ft.
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling		NA ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-85
Project	Blennerhassett Bridge	Date Started	
Boring Location	Station 2143+79 Offset 30.0 Lt.	Date Completed	
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
644.40	0.0	Reddish brown, lean clay (FILL), trace sand, some rock fragments, (angular, cobble boulder sandstone, moist, stiff - very stiff	1	SS	0.0-1.5	2-4-7 (11)	100			
			2	SS	5.0-6.5	12-16-21 (37)	100			
			3	SS	10.0-11.5	15-7-10 (17)	100			
			4	SS	15.0-16.2	16-12-50/0.3	83			
		35.5	5	SS	20.5-27.0	4-5-7 (12)	23			
			6	SS	25.5-27.0	9-9-9 (18)	100			
			7	SS	30.5-32.0	7-9-11 (20)	100			

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate		ft.
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-85
Project	Blennerhassett Bridge	Date Started	
Boring Location	Station 2143+79 Offset 30.0 Lt.	Date Completed	
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
608.90	35.5	Brown and gray, sandy clay (FILL) and rock fragments (angular, cobble-boulder sandstone), moist, stiff	8	SS	35.5-37.0	15-19-12 (31)	100			
			9	SS	40.5-42.0	42-31-28 (59)	100			
598.90	45.5	10.0								
		Reddish brown and gray, SILTY CLAYSTONE, slickensided (20-40°), very broken at 55.2' to 56.5', highly weathered, extremely soft	10	SS	45.5-45.5	50/0.0	0	82	0	
			1	NX	45.5-50.5		94			
			2	NX	50.5-55.5		100	52	0	
587.70	56.7	11.2	3	NX	55.5-62.0		77	43	0-2	
		Gray, SILTSTONE, laminated, moderately weathered, soft								
582.40	62.0	5.3	4	NX	62.0-66.0		105	73	1-3	
579.20	65.2	3.2 Gray, SILTY SHALE, fissile, some thin clay interbeds, moderately to highly weathered, very soft - soft								
		Gray, SANDSTONE, fine to medium grained, many thin silty laminations, slightly weathered, medium hard	5	NX	66.0-71.0		98	98	3	
		5.8								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Observations

Immediate ____ ft.
At Completion ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-85
Project	Blennerhassett Bridge	Date Started	
Boring Location	Station 2143+79 Offset 30.0 Lt.	Date Completed	
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
573.40	71.0	BORING COMPLETED @ 71.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY

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EMPLOYEE OWNED

GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-86
Project	Blennerhassett Bridge	Date Started	11/26/2001
Boring Location	Station 2143+79 Offset 40.0 Rt.	Date Completed	11/27/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
656.75	0.0	
656.55	0.2	0.2 TOPSOIL
		Reddish brown, lean clay (FILL), some gravel and rock fragments, trace organics, moist - very moist, stiff - very stiff
		30.0
626.55	30.2	
		Reddish brown, SILTY CLAY, moist, very stiff
		4.8
621.75	35.0	

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	1-2-3 (5)	73			
2	SS	5.0-6.5	3-3-10 (13)	73			
3	SS	10.0-11.5	6-6-11 (17)	73			
4	SS	15.0-16.5	5-7-9 (16)	87			
5	SS	20.0-21.5	8-5-6 (11)	93			
6	SS	25.0-26.5	7-7-8 (15)	100			
7	SS	30.0-31.5	7-10-14 (24)	100			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: Dry ft.
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-86
Project	Blennerhassett Bridge	Date Started	11/26/2001
Boring Location	Station 2143+79 Offset 40.0 Rt.	Date Completed	11/27/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, interbedded fine to medium grained SANDSTONE and SILTSTONE, little clay laminations, thinly bedded, highly weathered, highly fractured 35.5'-36.9', 39.0'-40.4', 44.0'-45.4', and 47.6'-49.3', extremely soft - medium hard	8	SS	35.0-35.5	50/0.5	100			
			1	NX	35.5-39.0		86	0	0-3	
			2	NX	39.0-44.0		100	54	0-3	
		15.5 RQD 11%	3	NX	44.0-49.0		92	0	3-0	
606.25	50.5		4	NX	49.0-54.0		94	52	3-0	
		Gray to reddish brown, SILTY CLAYSTONE, medium to thick bedded, highly to slightly weathered, color change to reddish brown at 53.3', slickensided surfaces 20°-30° from horizontal (spaced 0.2'-0.8' apart), very soft - medium hard	5	NX	54.0-59.0		100	90	1-3	
		10.5 RQD 0%	6	NX	59.0-61.0		90	75	2-3	
595.75	61.0									
		BORING COMPLETED @ 61.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: Dry ft.
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-87
Project	Blennerhassett Bridge	Date Started	11/20/2001
Boring Location	Station 2143+79 Offset 80.0 Rt.	Date Completed	11/20/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
656.66	0.0	Reddish brown, lean clay (FILL), some gravel and rock fragments, trace organics (roots), moist - very moist, stiff - hard	1	SS	0.0-1.5	7-2-2 (4)	7			
			2	SS	5.0-6.5	4-4-4 (8)	7			
			3	SS	10.0-11.5	9-10-10 (20)	67			
			4	SS	15.0-16.5	4-7-9 (16)	87			
			5	SS	20.0-21.5	6-6-8 (14)	80			3
631.66	25.0	25.0								
		Reddish brown, SILTY CLAY, moist, stiff	6	SS	25.0-26.5	9-10-11 (21)	100			4.5+
626.36	30.3	5.3								
		Mottled brown and gray, fine SILTY SAND, moist	7	SS	30.0-31.5	5-5-5 (10)	100			
621.66	35.0	4.7								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type:
Method: NX/SS

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Water Level Observations

Immediate: ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-87
Project	Biennerhassett Bridge	Date Started	11/20/2001
Boring Location	Station 2143+79 Offset 80.0 Rt.	Date Completed	11/20/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, interbedded fine to medium grained SANDSTONE and SILTSTONE, little clay laminations, thinly bedded, highly weathered, highly fractured, extremely soft	8	SS	35.0-35.0	50/0.0	0	0	3	
			1	NX	35.0-35.5		100	44	0-3	
			2	NX	35.5-40.5		84			
		16.2 RQD 6%	3	NX	40.5-45.5		84	16	1-3	
			4	NX	45.5-50.5		84	48	3-1	
605.46	51.2									
		Gray to reddish brown, SILTY CLAYSTONE, medium to thick bedded, completely to slightly weathered, completely to slightly weathered, color changes to reddish brown at 54.1', slickensided surfaces 20°-45° from horizontal (spaced 0.3'-0.9' apart), extremely soft - medium hard	5	NX	50.5-55.5		100	22	3-0	
			6	NX	55.5-60.5		96	78	3-1	
		14.3 RQD 0%	7	NX	60.5-65.5		70	36	1-0	
591.16	65.5									
		BORING COMPLETED @ 65.5'								

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type:
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: ____ ft.
At Completion: ____ ft.
After 24 Hrs. NA ft.
Water used in Drilling: NA ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-88
Project	Blennerhassett Bridge	Date Started	11/29/2001
Boring Location	Station 2144+24.6 Offset 60.0 Lt.	Date Completed	11/30/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
664.20	0.0	Reddish brown, lean clay (FILL), and rock fragments (angular, gravel-boulder, sandstone), some sand, trace silt, moist, stiff - very stiff
	50.5	

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	2-2-3 (5)	100			
2	SS	5.0-6.5	11-7-9 (16)	100			
3	SS	10.0-11.5	8-7-9 (16)	73			
4	SS	15.0-16.5	7-9-11 (20)	100			
5	SS	20.0-21.5	12-14-17 (31)	100			
6	SS	25.0-26.5	17-19-22 (41)	67			
7	SS	30.0-31.5	13-14-15 (29)	47			

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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Water Level Obserations

Immediate: Dry ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling: 51 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-88
Project	Blennerhassett Bridge	Date Started	11/29/2001
Boring Location	Station 2144+24.6 Offset 60.0 Lt.	Date Completed	11/30/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Reddish brown, lean clay (FILL), and rock fragments (angular, gravel-boulder, sandstone), some sand, trace silt, moist, stiff - very stiff ***(LAYER CONTINUED DESCRIPTION REPEATED)***	8	SS	35.0-36.5	7-8-9 (17)	100			
			9	SS	40.0-41.5	8-9-9 (18)	100			
			10	SS	45.0-46.5	22-13-10 (23)	100			
613.70	50.5		11	SS	50.0-51.0	17-47-50/0.5	90			
		Brown, SANDY SHALE, highly fractured, highly weathered, very soft	1	NX	51.0-56.0		54	0	1-0	
608.60	55.6	5.1								
606.90	57.3	Gray, SILTY CLAYSTONE, highly weathered, extremely soft 1.7	2	NX	56.0-61.0		96	48	0-3	
604.20	60.0	Brown to gray, SANDSTONE, fine grained, few thin shale interbeds, moderately to highly weathered, soft - medium hard 2.7								
		Gray and reddish brown, SILTY CLAYSTONE, some horizontal fractures, slickensided surfaces (10°-20°), highly weathered, extremely soft - very soft.	3	NX	61.0-66.0		100	42	0-1	
		16.0	4	NX	66.0-71.0		100	74	0-1	

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

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EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs.	NA ft.
Water used in Drilling	51	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-88
Project	Blennerhassett Bridge	Date Started	11/29/2001
Boring Location	Station 2144+24.6 Offset 60.0 Lt.	Date Completed	11/30/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Gray and reddish brown, SILTY CLAYSTONE, some horizontal fractures, slickensided surfaces (10°-20°), highly weathered, extremely soft - very soft *(LAYER CONTINUED DESCRIPTION REPEATED)*	5	NX	71.0-76.0		100	56	0-1	
588.20	76.0	BORING COMPLETED @ 76.0'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: Dry ft.
At Completion: ft.
After 24 Hrs. NA ft.
Water used in Drilling: 51 ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-89
Project	Blennerhassett Bridge	Date Started	11/19/2001
Boring Location	Station 2143+94 Offset 80.0 Rt.	Date Completed	11/19/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness
659.43	0.0	
658.63	0.8	0.8 Gravel road base (FILL)
		Reddish brown, lean clay (FILL), some gravel and rock fragments, trace organic, moist, stiff - hard
		27.2
631.43	28.0	
		Reddish brown, SILTY CLAY, moist, stiff
		4.0
627.43	32.0	
		Brown, interbedded fine to medium grained SANDSTONE, little clay and siltstone laminations, thinly bedded, highly weathered, highly fractured, extremely soft - medium hard

SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
1	SS	0.0-1.5	12-15-14 (29)	67			4.5+
2	SS	5.0-6.5	32-20-20 (40)	53			4.5+
3	SS	10.0-10.8	12-50/0.3	87			2.75+
4	SS	15.0-16.5	10-5-5 (10)	100			
5	SS	20.0-21.5	6-4-4 (8)	67			4.5+
6	SS	25.0-26.5	14-15-17 (32)	73			4.5+
7	SS	30.0-31.5	7-9-11 (20)	100			4

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	Dry	ft.
At Completion		ft.
After	24 Hrs. NA	ft.
Water used in Drilling	NA	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-89
Project	Blennerhassett Bridge	Date Started	11/19/2001
Boring Location	Station 2143+94 Offset 80.0 Rt.	Date Completed	11/19/2001
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		Brown, interbedded fine to medium grained SANDSTONE, little clay and siltstone laminations, thinly bedded, highly weathered, highly fractured, extremely soft - medium hard ***(LAYER CONTINUED DESCRIPTION REPEATED)***	8	SS	35.0-35.3	50/0.3				
			1	NX	35.3-40.3		100	46	0-3	
		19.7 RQD 19%	2	NX	40.3-45.3		94	80	0-3	
			3	NX	45.3-50.3		100	50	1-3	
607.73	51.7		4	NX	50.3-55.3		94	40	0-3	
		Gray to reddish brown, SILTY CLAYSTONE, medium bedded, highly to slightly weathered, color changes to reddish brown at 56.0', slickensided surfaces 10°-25° from horizontal (spaced 0.3'-0.7' apart), extremely soft - medium hard	5	NX	55.3-60.3		98	76	3-1	
		8.6 RQD 0%								
599.13	60.3									
		BORING COMPLETED @ 60.3'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate: Dry ft.
At Completion: ft.
After: 24 Hrs. NA ft.
Water used in Drilling: NA ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 12/5/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-101
Project	Blennerhassett Bridge	Date Started	12/5/2000
Boring Location	Station 2143+41 Offset 35.5 Rt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
630.70	0.0	Brown and gray, lean clay (FILL), some rock fragments, moist, very stiff	1	SS	0.0-1.5	3-7-9 (16)	100			2.5
			2	SS	5.0-6.5	6-12-17 (29)	0			2.75
620.70	10.0	10.0								
		Light brown to gray, SANDSTONE, medium grained, slightly to moderately weathered, medium hard	3	SS	10.0-11.5	7-8-8 (16)	100			N/A
			4	SS	15.0-15.5	50-50/0.0	100			N/A
610.20	20.5	10.5	1	NX	15.5-20.5		82	30	3	
		Brown to gray, CLAYEY SILTSTONE, few thin sandstone interbeds, moderately to highly weathered, soft	2	NX	20.5-25.5		100	26	2	
			3	NX	25.5-30.5		48	8	2	
600.20	30.5	10.0								
		Reddish brown, SILTY CLAYSTONE, slickensided surfaces, moderately to highly weathered, very soft	4	NX	30.5-35.5		96	20	1	
		5.0								

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion	8.0	ft. ▽
After	24 Hrs. NA	ft.
Water used in Drilling	15.5	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-101
Project	Blennerhassett Bridge	Date Started	12/5/2000
Boring Location	Station 2143+41 Offset 35.5 Rt.	Date Completed	12/6/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
595.20	35.5	BORING COMPLETED @ 35.5'								

General Notes

Driller: Penn. Drill
Rig No.:
Rig Type: Track
Method: NX/SS

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	Dry	ft.
At Completion	8.0	ft. ▽
After	24 Hrs.	NA ft.
Water used in Drilling	15.5	ft.

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-102
Project	Blennerhassett Bridge	Date Started	12/10/2000
Boring Location	Station 2146+00 Offset 0.0 CL.	Date Completed	12/10/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
666.35	0.0									
		Gray, limestone, gravel and cobbles (FILL)	1	SS	0.0-0.0	50/0.0				N/A
664.35	2.0	2.0 and brown silty clay								
		Brown, silt and sand (FILL), some clay, some rock fragments (boulder and cobbles, sandstone), some organics (pieces of wood in spoon 11.0' to 11.5'), saturated, very dense	1	SS	5.0-6.5	2-2-29 (31)	67			N/A
		13.0	1	ST	10.0-11.0		160			N/A
			3	SS	11.0-12.5	15-14-15 (29)	33			N/A
651.35	15.0									
		Red and gray, gravel (claystone rock fragments) (FILL), wet, very dense	4	SS	15.0-16.5	7-10-11 (21)	67			N/A
		7.0	5	SS	20.0-21.5	7-9-13 (22)	67			N/A
644.35	22.0									
		Reddish brown, lean clay (FILL), trace silt, little rock fragments (sandstone), trace organics (wood fragments), wet - saturated, soft - stiff	2	ST	22.3-24.3		85			N/A
			6	SS	25.5-27.0	0-0-0 (0)	0			N/A
			3	ST	27.0-29.0		75			N/A
636.35	30.0									
			7	SS	30.0-31.5	3-7-9 (16)	100			1.0

TEST BORING BLENN.GPJ HCN_WV.GDT 2/9/01

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/S/SS/ST

H.C. NUTTING COMPANY
912 Morris Street
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Obserations

Immediate	35.0	ft. ▽
At Completion	8.0	ft. ▼
After	24 Hrs. NA	ft.
Water used in Drilling	50.0	ft.

Log of Test Boring

Client	Michael Baker Jr., Inc.	Boring No.	B-102
Project	Blennerhassett Bridge	Date Started	12/10/2000
Boring Location	Station 2146+00 Offset 0.0 CL.	Date Completed	12/10/2000
Elev. Ref.	E.L. Robinson	Order No.	92143.005
Remarks		Inspector	H.C. Nutting Co.

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, moisture, stiffness/density/hardness	SAMPLE NO.	TYPE	DEPTH ft.	BLOWS/6" (N Value)	REC. %	RQD %	HCSI	PPR tsf
		27.5 Reddish brown, lean clay (FILL), trace silt, little rock fragments (sandstone), trace organics (wood fragments), wet - saturated, soft - stiff *(LAYER CONTINUED DESCRIPTION REPEATED)*	8	SS	35.0-36.5	7-9-20 (29)	100			0.5
			9	SS	40.0-41.5	7-9-14 (23)	100			0.5
		-25.3	10	S	45.0-46.2	10-20-50/0.2	100			N/A
616.85	49.5									
		Gray, SANDSTONE, fine to medium grained, some clayey siltstone interbeds, slightly to moderately weathered, medium hard	11	SS	50.0-50.0	50/0.0	0	0	N/A	N/A
		5.8	1	NX	50.0-55.0		94	70	3	
611.05	55.3									
		Gray, CLAYEY SILTSTONE, few fine grained sandstone laminations, moderately weathered, soft	2	NX	55.0-60.0		100	86	2-3	
		BORING COMPLETED @ 60.0'								

General Notes

Driller	Penn. Drill
Rig No.	
Rig Type	Track
Method	NX/S/SS/ST

H.C. NUTTING COMPANY
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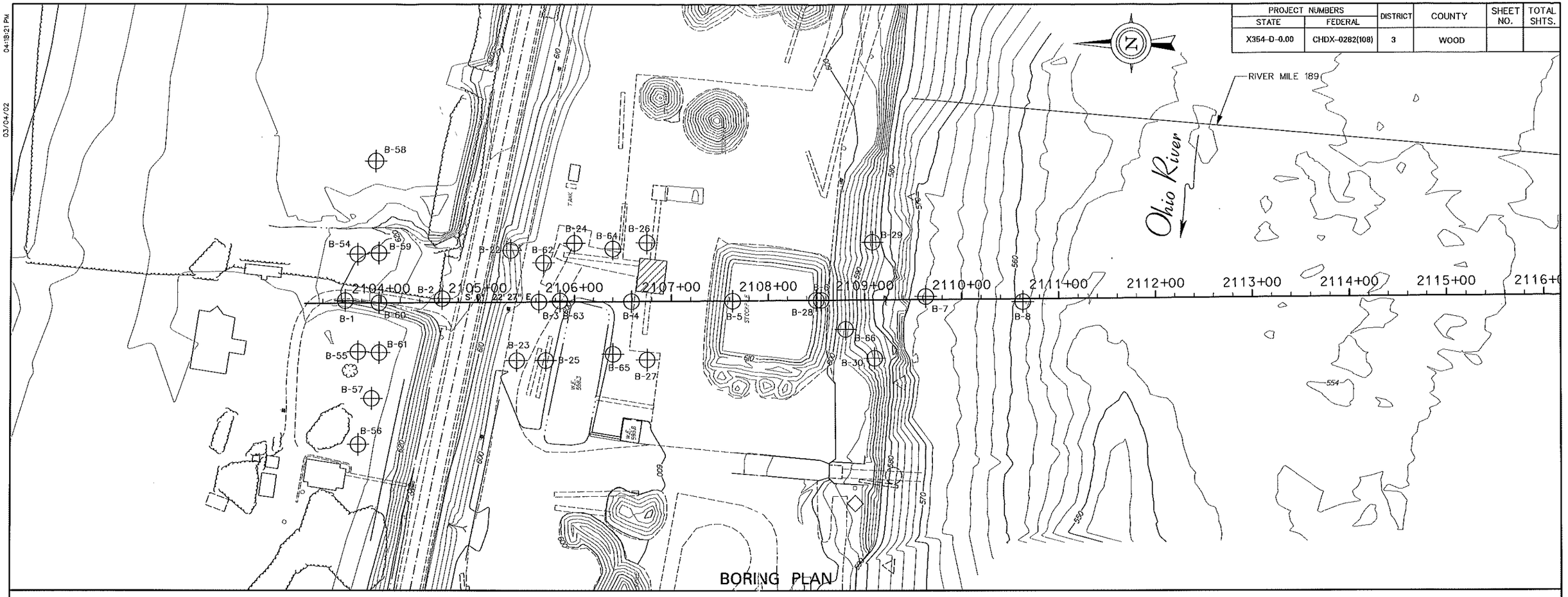
Charleston WV 25301
(304) 344-0821 Fax (304) 342-4711
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Water Level Observations

Immediate	35.0	ft. ▽
At Completion	8.0	ft. ▽
After	24 Hrs. NA	ft.
Water used in Drilling	50.0	ft.

TEST BORING 8LENN.GPJ HCN_WV.GDT 2/9/01

PROJECT NUMBERS		DISTRICT	COUNTY	SHEET NO.	TOTAL SHTS.
STATE	FEDERAL				
X354-D-0.00	CHDX-0282(108)	3	WOOD		



BORING PLAN

BORING LOCATIONS AND OFFSETS (COMPLETED)								
BORING NO.	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
STATION	2103+63.00	2104+63.00	2105+73.00	2106+59.00	2107+63.00	2108+55.00	2109+63.00	2110+63.00
OFFSET	2.5'LT	4.0'LT	0'	0'	0'	0'	3.0'LT	3.0'RT
ACTUAL DEPTH	89.5'	85.0'	74.8'	69.5'	70.0'	74.0'	47.9'	51.8'

BORING LOCATIONS AND OFFSETS (COMPLETED)									
BORING NO.	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-30
STATION	2105+34.00	2105+40.00	2106+00.00	2105+70.00	2106+61.00	2106+75.00	2108+50.00	2109+10.00	2109+68.00
OFFSET	53'LT	60'RT	60.0'LT	60.0'RT	57.0'LT	60.0'RT	℄	60.0'LT	59.0'RT
ACTUAL DEPTH	168.5'	145.5'	121.0'	140.5'	77.0'	82.0'	92.0'	70.5'	81.0'

BORING LOCATIONS AND OFFSETS (COMPLETED)								
BORING NO.	B-54	B-55	B-56	B-57	B-58	B-59	B-60	B-61
STATION	2103+76.00	2103+76.00	2103+76.00	2103+90.00	2103+95.00	2103+98.00	2103+98.00	2103+98.00
OFFSET	50'LT	50'RT	145'RT	98'RT	145'LT	51'LT	℄	51'RT
ACTUAL DEPTH	95.0'	108.0'	105.0'	106.0'	108.0'	107.5'	103.0'	111.0'

BORING LOCATIONS AND OFFSETS (COMPLETED)					
BORING NO.	B-62	B-63	B-64	B-65	B-66
STATION	2105+68.00	2105+85.00	2106+50.00	2106+50.00	2108+80.00
OFFSET	40'LT	℄	54'LT	54'RT	30'RT
ACTUAL DEPTH	115.0'	111.0'	160.0'	170.0'	141.0'

NOTES:

BORINGS B-1 THROUGH B-21 WERE COMPLETED IN A PREVIOUS CONTRACT.

BORINGS B-22 TO B-30 WERE PROPOSED FOR THE END ANCHORAGE OF THE MAIN SPAN UNIT ON AUGUST 18, 2000.

OHIO RIVER NORMAL POOL ELEVATION 582.0'

LEGEND

⊕ LOCATION OF COMPLETED BORINGS

SCALE : 0 50 ft.

NO.	REVISION	DATE:	BY:

W. VA. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CORRIDOR D OVER OHIO RIVER AND BLENNERHASSETT ISLAND OHIO APPROACH SPANS CORE BORING LAYOUT

DESIGNED JRT	DATE 7/01	
DRAWN SJG	7/01	
CHECKED MJT	2/02	
CHECKED JRT	2/02	

Baker — Michael Baker Jr., Inc.

HNTB — Charleston, W.Va.

SHEET CB1 OF CB3

BRIDGE NO. 4960

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03/04/02
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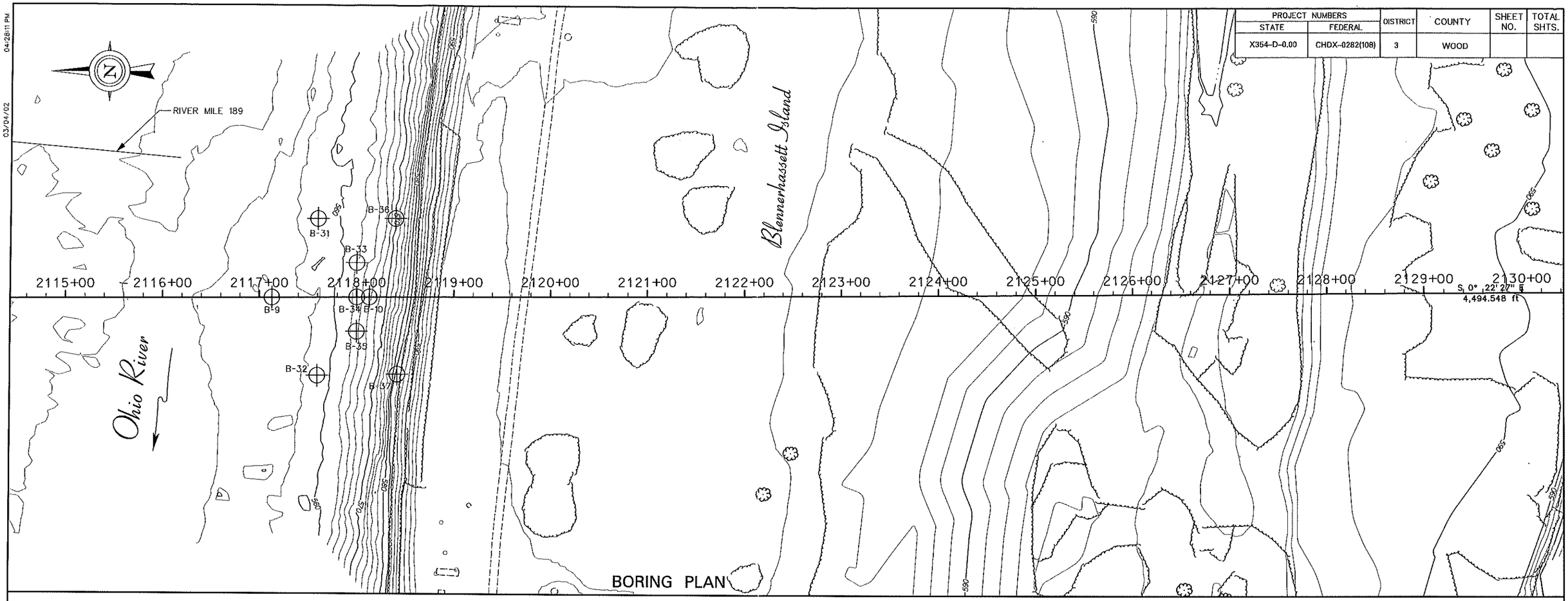
PROJECT NUMBERS		DISTRICT	COUNTY	SHEET NO.	TOTAL SHTS.
STATE	FEDERAL				
X354-D-0.00	CHDX-0282(108)	3	WOOD		



BORING LOCATIONS AND OFFSETS (COMPLETED)									
BORING NO.	B-9	B-10	B-31	B-32	B-33	B-34	B-35	B-36	B-37
STATION	2117+13.00	2118+13.00	2117+60.00	2117+60.00	2118+00.00	2118+00.00	2118+00.00	2118+40.00	2118+41.50
OFFSET	0'	0'	80' LT	80.0' RT	35.0' LT	35.0' LT	35.0' RT	80.0' LT	79.0' RT
ACTUAL DEPTH	32.9'	40.8'	44.5'	44.5'	37.0'	72.5'	38.5'	55.0'	66.0'

NOTES:

BORINGS B-1 THROUGH B-21 WERE COMPLETED IN A PREVIOUS CONTRACT

OHIO RIVER NORMAL POOL ELEVATION 582.0'

LEGEND

⊕ LOCATION OF COMPLETED BORINGS

NO.	REVISION	DATE:	BY:

W. VA. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CORRIDOR D OVER OHIO RIVER
AND BLENNERHASSETT ISLAND
OHIO APPROACH SPANS
CORE BORING LAYOUT

DESIGNED JRF	DATE 10/00	
DRAWN SJG	10/00	
CHECKED AJF	2/02	
CHECKED JRF	2/02	

Baker
Michael Baker Jr., Inc.

HNTB
Charleston, W.Va.

SHEET CB2 OF CB3
BRIDGE NO. 4960

SCALE : 0 50 ft.

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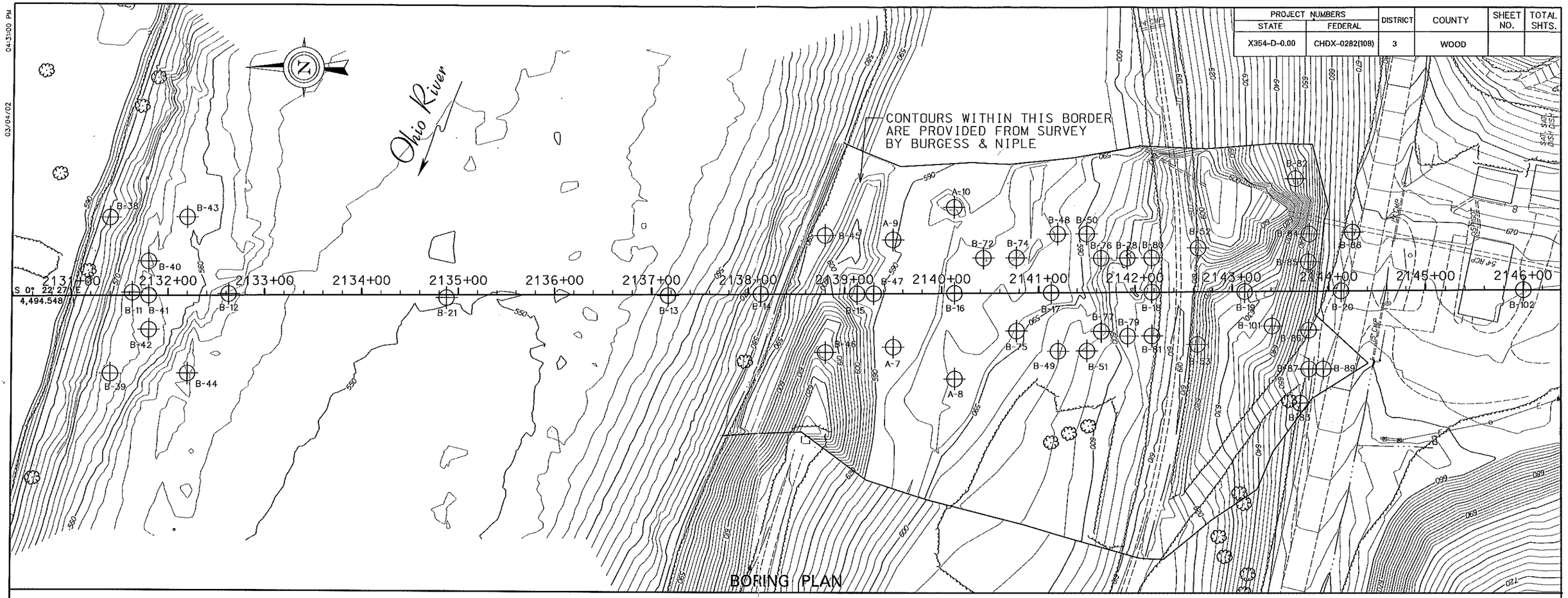
PROJECT NUMBERS		DISTRICT	COUNTY	SHEET NO.	TOTAL SHTS.
STATE	FEDERAL				
X354-D-0.00	CHDX-0282(108)	3	WOOD		



BORING PLAN

BORING LOCATIONS AND OFFSETS (COMPLETED)														
BORING NO.	B-11	B-12	B-13	B-14	B-15	B-16	B-17	B-18	B-19	B-20	B-21	B-38	B-39	B-40
STATION	2131+63.00	2132+63.00	2137+17.00	2138+13.00	2139+13.00	2140+13.00	2141+13.00	2142+17.50	2143+13.00	2144+13.00	2134+88.00	2131+40.00	2131+40.00	2131+80.00
OFFSET	3.0' LT	1.5' LT	1.2' RT	0	0	0	0	0	0	0	3.0' RT	80.0' LT	80.0' RT	35.0' LT
ACTUAL DEPTH	38.9'	30.0'	30.3'	53.7'	62.0'	48.0'	35.7'	27.5'	33.0'	51.2'	30.2'	64.5'	50.2'	38.1'

BORING LOCATIONS AND OFFSETS (COMPLETED)														
BORING NO.	B-41	B-42	B-43	B-44	B-45	B-46	B-47	B-48	B-49	B-50	B-51	B-52	B-53	B-72
STATION	2131+80.00	2131+80.00	2132+20.00	2132+20.00	2138+80.00	2138+80.00	2139+30.00	2141+20.00	2141+20.00	2141+50.00	2141+50.00	2142+65.00	2142+64.00	2140+43.00
OFFSET	0	35.0' RT	79.0' LT	80.0' RT	60.0' LT	60.0' RT	0	60.0 LT	60.0' RT	60.0' LT	60.0' RT	45.0' LT	54.0' RT	35' LT
ACTUAL DEPTH	73.0'	39.0'	45.8'	37.5'	82.5'	105.0'	71.0'	51.0'	61.5'	75.0'	78.5'	101.5'	95.0'	66.0'

BORING LOCATIONS AND OFFSETS (COMPLETED)														
BORING NO.	B-73	B-74	B-75	B-76	B-77	B-78	B-79	B-80	B-81	B-82	B-83	B-84	B-85	B-86
STATION	2140+43.00	2140+77.00	2140+77.00	2141+65.00	2141+65.00	2141+92.00	2141+92.00	2142+17.50	2142+17.50	2143+66.00	2143+70.00	2143+80.00	2143+79.00	2143+79.00
OFFSET	40' RT	35.0' LT	40.0' RT	35.0' LT	40.0' RT	35.0' LT	45.0' RT	35.0' LT	45.0' RT	115.0' LT	115.0' RT	58.5' LT	30.00' LT	40.0' RT
ACTUAL DEPTH	63.0'	105.0'	127.0'	81.0'	81.0'	38.0'	43.0'	73.0'	43.0'	36.5'	60.3'	66.0'	71.0'	61.0'

BORING LOCATIONS AND OFFSETS (COMPLETED)									
BORING NO.	B-87	B-88	B-89	B-101	B-102	A-7	A-8	A-9	A-10
STATION	2143+79.00	2144+24.60	2143+94.00	2143+41.00	2146+00.00	2139+50.00	2140+13.00	2139+50.00	2140+13.00
OFFSET	80.0' RT	60.0' LT	80.0' RT	35.5' RT	0	55.0' RT	88.0' RT	55.0' LT	88.0' LT
ACTUAL DEPTH	65.5'	76.0'	60.3'	35.5'	60.0'	86.0'	75.5'	76.0'	45.0'

SCALE : 0 50 ft.

NOTES:

BORINGS B-1 THROUGH B-21 WERE COMPLETED IN A PREVIOUS CONTRACT.

BORINGS B-45 TO B-53 WERE COMPLETED ON DECEMBER 21, 2000.

OHIO RIVER NORMAL POOL ELEVATION 582.0'.

TOPOGRAPHIC MAPPING IS APPROXIMATE.

LEGEND

⊕ LOCATION OF COMPLETED BORINGS

NO.	REVISION	DATE:	BY:

W. VA. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CORRIDOR D OVER OHIO RIVER AND BLENNERHASSETT ISLAND WEST VIRGINIA APPROACH SPANS CORE BORING LAYOUT

DESIGNED JKT	DATE 7/01	Baker Michael Baker Jr., Inc.	HNTB Charleston, W.Va.
DRAWN SJG	7/01		
CHECKED MJT	2/02		
CHECKED JKT	2/02		

SHEET CB3 OF CB3
BRIDGE NO. 4960

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03/04/02
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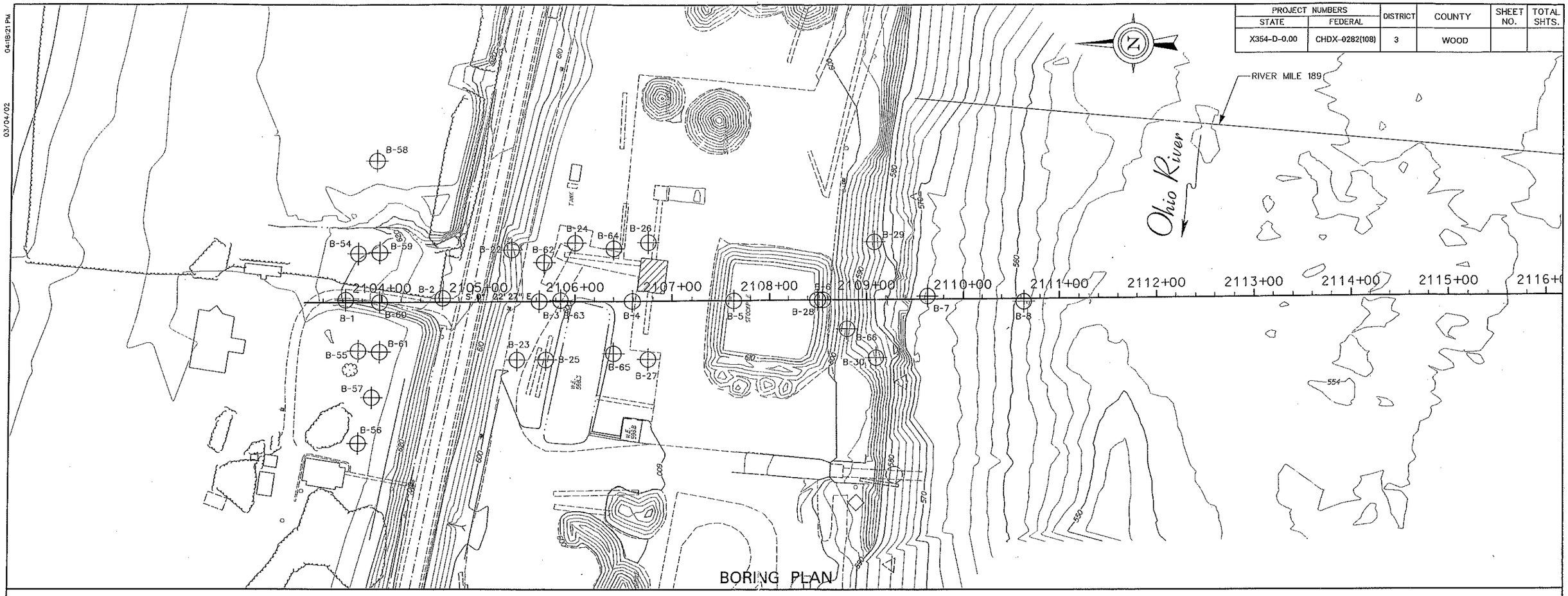
PROJECT NUMBERS		DISTRICT	COUNTY	SHEET NO.	TOTAL SHTS.
STATE	FEDERAL				
X354-D-0.00	CHDX-0282(108)	3	WOOD		



BORING PLAN

BORING LOCATIONS AND OFFSETS (COMPLETED)								
BORING NO.	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
STATION	2103+63.00	2104+63.00	2105+73.00	2106+59.00	2107+63.00	2108+55.00	2109+63.00	2110+63.00
OFFSET	2.5'LT	4.0'LT	0'	0'	0'	0'	3.0'LT	3.0'RT
ACTUAL DEPTH	89.5'	85.0'	74.8'	69.5'	70.0'	74.0'	47.9'	51.8'

BORING LOCATIONS AND OFFSETS (COMPLETED)								
BORING NO.	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-30
STATION	2105+34.00	2105+40.00	2106+00.00	2105+70.00	2106+61.00	2106+75.00	2108+50.00	2109+10.00	2109+08.00
OFFSET	53'LT	60'RT	60.0'LT	60.0'RT	57.0'LT	60.0'RT	℄	60.0'LT	59.0'RT
ACTUAL DEPTH	168.5'	145.5'	121.0'	140.5'	77.0'	82.0'	92.0'	70.5'	81.0'

BORING LOCATIONS AND OFFSETS (COMPLETED)								
BORING NO.	B-54	B-55	B-56	B-57	B-58	B-59	B-60	B-61
STATION	2103+76.00	2103+76.00	2103+76.00	2103+90.00	2103+95.00	2103+98.00	2103+98.00	2103+98.00
OFFSET	50'LT	50'RT	145'RT	98'RT	145'LT	51'LT	℄	51'RT
ACTUAL DEPTH	95.0'	108.0'	105.0'	106.0'	108.0'	107.5'	103.0'	111.0'

BORING LOCATIONS AND OFFSETS (COMPLETED)					
BORING NO.	B-62	B-63	B-64	B-65	B-66
STATION	2105+68.00	2105+85.00	2106+50.00	2106+50.00	2108+80.00
OFFSET	40'LT	℄	54'LT	54'RT	30'RT
ACTUAL DEPTH	115.0'	111.0'	160.0'	170.0'	141.0'

NOTES:

BORINGS B-1 THROUGH B-21 WERE COMPLETED IN A PREVIOUS CONTRACT.

BORINGS B-22 TO B-30 WERE PROPOSED FOR THE END ANCHORAGE OF THE MAIN SPAN UNIT ON AUGUST 18, 2000.

OHIO RIVER NORMAL POOL ELEVATION 582.0'

LEGEND

⊕ LOCATION OF COMPLETED BORINGS

SCALE : 0 50 ft.

NO.	REVISION	DATE:	BY:

W. VA. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CORRIDOR D OVER OHIO RIVER AND BLENNERHASSETT ISLAND OHIO APPROACH SPANS CORE BORING LAYOUT

DESIGNED JKJ	DATE 7/01	
DRAWN SJG	7/01	
CHECKED AJS	2/02	
CHECKED JKJ	2/02	

Baker — Michael Baker Jr., Inc.
HNTB — Charleston, W.Va.

SHEET CB1 OF CB3
BRIDGE NO. 4960

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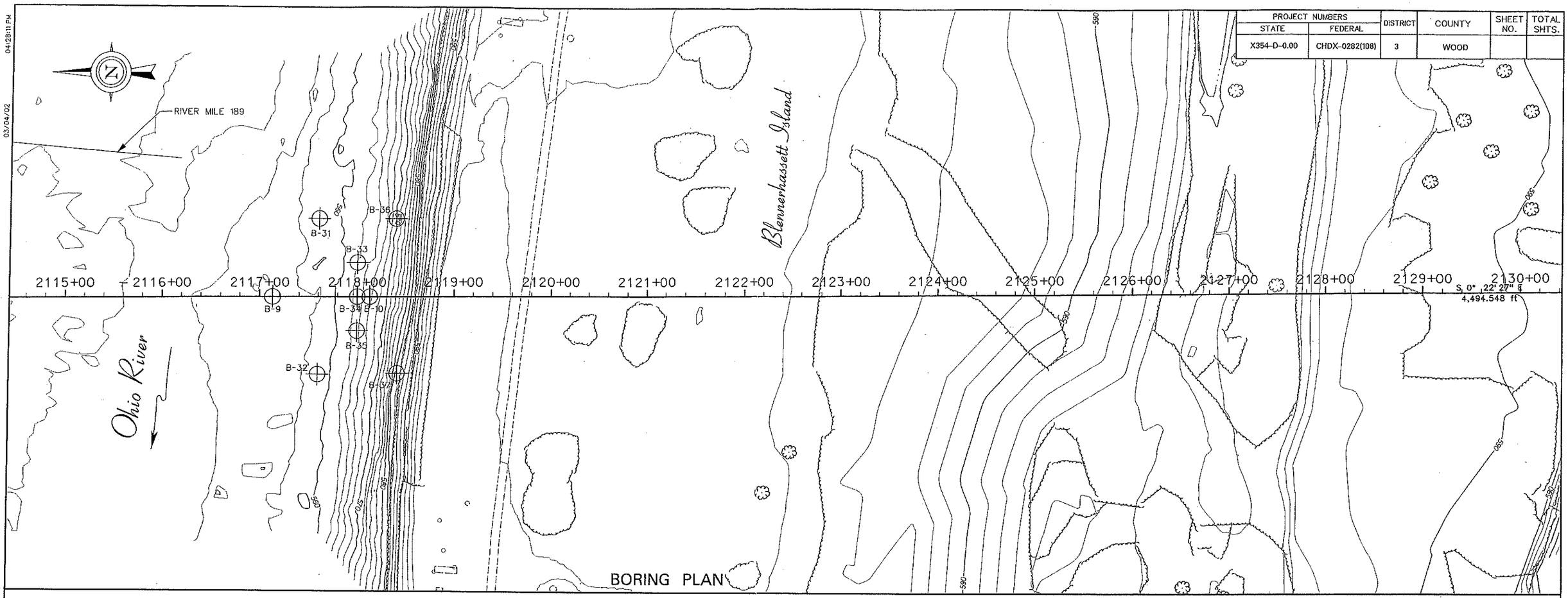
PROJECT NUMBERS		DISTRICT	COUNTY	SHEET NO.	TOTAL SHTS.
STATE	FEDERAL				
X354-D-0.00	CHDX-0282(108)	3	WOOD		



BORING PLAN

BORING LOCATIONS AND OFFSETS (COMPLETED)									
BORING NO.	B-9	B-10	B-31	B-32	B-33	B-34	B-35	B-36	B-37
STATION	2117+13.00	2118+13.00	2117+60.00	2117+60.00	2118+00.00	2118+00.00	2118+00.00	2118+40.00	2118+41.50
OFFSET	0'	0'	80' LT	80.0' RT	35.0' LT	35.0' LT	35.0' RT	80.0' LT	79.0' RT
ACTUAL DEPTH	32.9'	40.8'	44.5'	44.5'	37.0'	72.5'	38.5'	55.0'	86.0'

NOTES:

BORINGS B-1 THROUGH B-21 WERE COMPLETED IN A PREVIOUS CONTRACT

OHIO RIVER NORMAL POOL ELEVATION 582.0'

LEGEND

⊕ LOCATION OF COMPLETED BORINGS

SCALE : 0 50 ft.

NO.	REVISION	DATE:	BY:

W. VA. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CORRIDOR D OVER OHIO RIVER AND BLENNERHASSETT ISLAND OHIO APPROACH SPANS CORE BORING LAYOUT

DESIGNED JRT	DATE 10/00	
DRAWN SJG	10/00	
CHECKED AJT	2/02	
CHECKED JRT	2/02	

Baker — Michael Baker Jr., Inc.

HNTB — Charleston, W.Va.

SHEET CB2 OF CB3

BRIDGE NO. 4960

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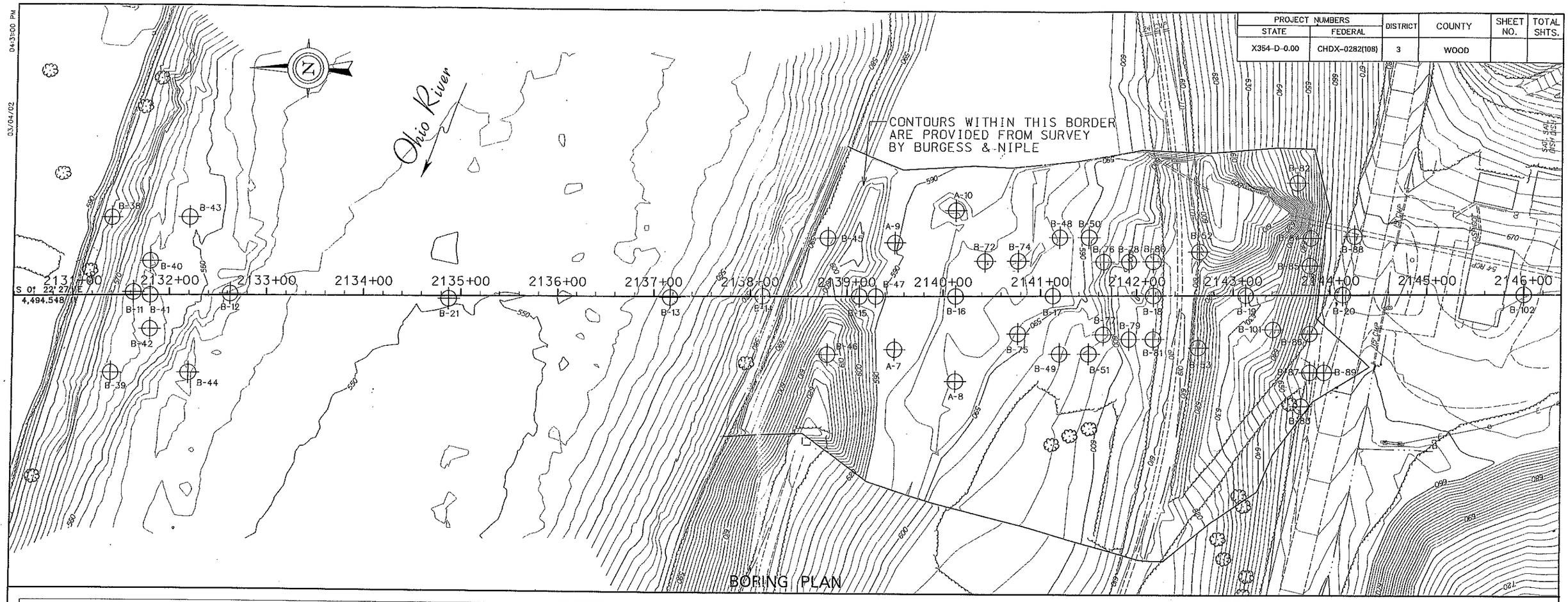
PROJECT NUMBERS		DISTRICT	COUNTY	SHEET NO.	TOTAL SHTS.
STATE	FEDERAL				
X354-D-0.00	CHDX-0282(108)	3	WOOD		



BORING PLAN

BORING LOCATIONS AND OFFSETS (COMPLETED)													
BORING NO.	B-11	B-12	B-13	B-14	B-15	B-16	B-17	B-18	B-19	B-20	B-21	B-38	B-39	B-40
STATION	2131+63.00	2132+63.00	2137+17.00	2138+13.00	2139+13.00	2140+13.00	2141+13.00	2142+17.50	2143+13.00	2144+13.00	2134+88.00	2131+40.00	2131+40.00	2131+80.00
OFFSET	3.0' LT	1.5' LT	1.2' RT	0	0	0	0	0	0	0	3.0' RT	80.0' LT	80.0' RT	35.0' LT
ACTUAL DEPTH	38.9'	30.0'	30.3'	53.7'	62.0'	48.0'	35.7'	27.5'	33.0'	51.2'	30.2'	64.5'	50.2'	38.1'

BORING LOCATIONS AND OFFSETS (COMPLETED)														
BORING NO.	B-41	B-42	B-43	B-44	B-45	B-46	B-47	B-48	B-49	B-50	B-51	B-52	B-53	B-72
STATION	2131+80.00	2131+80.00	2132+20.00	2132+20.00	2138+80.00	2138+80.00	2139+30.00	2141+20.00	2141+20.00	2141+50.00	2141+50.00	2142+65.00	2142+64.00	2140+43.00
OFFSET	0	35.0' RT	79.0' LT	80.0' RT	60.0' LT	60.0' RT	0	60.0 LT	60.0' RT	60.0' LT	60.0' RT	45.0' LT	54.0' RT	35' LT
ACTUAL DEPTH	73.0'	39.0'	45.8'	37.5'	82.5'	105.0'	71.0'	51.0'	61.5'	75.0'	78.5'	101.5'	95.0'	66.0'

BORING LOCATIONS AND OFFSETS (COMPLETED)														
BORING NO.	B-73	B-74	B-75	B-76	B-77	B-78	B-79	B-80	B-81	B-82	B-83	B-84	B-85	B-86
STATION	2140+43.00	2140+77.00	2140+77.00	2141+65.00	2141+65.00	2141+92.00	2141+92.00	2142+17.50	2142+17.50	2143+66.00	2143+70.00	2143+80.00	2143+79.00	2143+79.00
OFFSET	40' RT	35.0' LT	40.0' RT	35.0' LT	40.0' RT	35.0' LT	45.0' RT	35.0' LT	45.0' RT	115.0' LT	115.0' RT	58.5' LT	30.00' LT	40.0' RT
ACTUAL DEPTH	63.0'	105.0'	127.0'	81.0'	81.0'	38.0'	43.0'	73.0'	43.0'	36.5'	60.3'	66.0'	71.0'	61.0'

BORING LOCATIONS AND OFFSETS (COMPLETED)									
BORING NO.	B-87	B-88	B-89	B-101	B-102	A-7	A-8	A-9	A-10
STATION	2143+79.00	2144+24.60	2143+94.00	2143+41.00	2146+00.00	2139+50.00	2140+13.00	2139+50.00	2140+13.00
OFFSET	80.0' RT	60.0' LT	80.0' RT	35.5' RT	0	55.0' RT	88.0' RT	55.0' LT	88.0' LT
ACTUAL DEPTH	65.5'	76.0'	60.3'	35.5'	60.0'	86.0'	75.5'	76.0'	45.0'

NOTES:

BORINGS B-1 THROUGH B-21 WERE COMPLETED IN A PREVIOUS CONTRACT.

BORINGS B-45 TO B-53 WERE COMPLETED ON DECEMBER 21, 2000.

OHIO RIVER NORMAL POOL ELEVATION 582.0'.

TOPOGRAPHIC MAPPING IS APPROXIMATE.

LEGEND

⊕ LOCATION OF COMPLETED BORINGS

SCALE : 0 50 ft.

NO.	REVISION	DATE:	BY:

DESIGNED	DATE
JRT	7/01
DRAWN	
SJG	7/01
CHECKED	
AJT	2/02
CHECKED	
JRT	2/02

W. VA. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CORRIDOR D OVER OHIO RIVER AND BLENNERHASSETT ISLAND WEST VIRGINIA APPROACH SPANS CORE BORING LAYOUT

Baker — Michael Baker Jr., Inc.

HNTB — Charleston, W.Va.

SHEET CB3 OF CB3

BRIDGE NO. 4960

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C-8 DATA SUMMARY REPORT
CONSENT ORDER GWR-2001-019
DuPont Washington Works Facility and Local, Letart And Dry Run Landfills

February 2003 Project No. 7423
18983635

Prepared by

CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Diamond

Barley Mill Plaza, Building 27
Wilmington, Delaware 19805

APPENDIX A

BORING LOGS AND WELL CONSTRUCTION DIAGRAMS – WASHINGTON WORKS FACILITY

AJ06-MW02

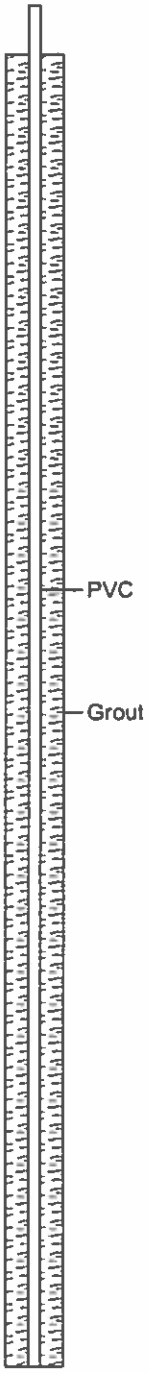
DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	July 10, 2002	Sampling Method	Continous
Date Completed	July 12, 2002	Northing (WV St Pl)	464393.33
Well Diameter	2"	Easting Coord.	2238081.33
Drilling Method	Rotosonic	Survey By	Vernon
Company	Bowser Morner	Logged By	L. Tilton, G. Donahue

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
0			Brown Clayey SILT with little organics and some fine to medium GRAVEL. well rounded, moist.	75%
5			Tannish brown silty fine to medium SAND w/ some fine to medium gravel, dry.	
10			Tannish brown silty fine to medium SAND with some clay and little fine to medium gravel, moist.	93%
15			Tannish brown fine to coarse SAND with some fine to coarse well rounded gravel, dry.	
20			Brown fine to coarse SAND with some fine to coarse well rounded gravel, little silt, dry.	74%
			SAA with 2 1" thick charcoal layers, moist.	
25			Tannish brown fine to coarse SAND with some fine to coarse gravel, dry, little silt and clay.	

Well: AJ06-MW-02
Elev.: 635.55'



URS

AJ06-MW02

DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	: July 10, 2002	Sampling Method	: Continous
Date Completed	: July 12, 2002	Northing (WV St Pl)	: 464393.33
Well Diameter	: 2"	Easting Coord.	: 2238081.33
Drilling Method	: Rotosonic	Survey By	: Vernon
Company	: Bowser Morner	Logged By	: L. Tilton, G. Donahue

Well: AJ06-MW-02
Elev.: 635.55'

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
25			SAND- (cont).	74%
30				
35				67%
40			Tannish SAND with fine to coarse gravel, dry to moist.	
			Dark brown to blakc CHARCOAL layer.	
45			Tannish SAND with fine to coarse GRAVEL, dry to moist.	92%
			Tannish SAND with layering of dark brown CHARCOAL beds, fine to coarse gravel, dry to moist.	
50			Tannish SAND with fine to coarse gravel, dry at top. Coarser in bottom 2.5', with random spaced charcoal, wet.	

PVC

Grout

URS

AJ06-MW02

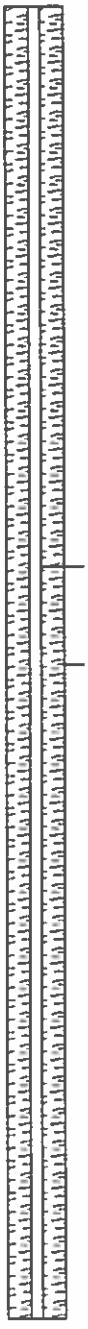
DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	: July 10, 2002	Sampling Method	: Continous
Date Completed	: July 12, 2002	Northing (WV St Pl)	: 464393.33
Well Diameter	: 2"	Easting Coord.	: 2238081.33
Drilling Method	: Rotosonic	Survey By	: Vernon
Company	: Bowser Morner	Logged By	: L. Tilton, G. Donahue

Well: AJ06-MW-02
Elev.: 635.55'

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
50				
			Tannish loose SAND with little fine to coarse gravel, dry to moist.	66%
55				
60			Tannish SAND with some fine to coarse gravel, grain size of sand varies from from fine to coarser. Moist at very top and wet with depth.	61%
65				
70				78%
75				



URS

AJ06-MW02

DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant
Project # 18983635 40000

Date Started	July 10, 2002	Sampling Method	Continous
Date Completed	July 12, 2002	Northing (WV St Pl)	464393.33
Well Diameter	2"	Easting Coord	2238081.33
Drilling Method	Rotosonic	Survey By	Vernon
Company	Bowser Morner	Logged By	L. Tilton, G. Donahue

Depth in Feet	Surf. Elev	GRAPHIC	DESCRIPTION	Recovery
75			Fine tannish SAND with little fine to coarse gravel, wet	78%
80				
85			SAA- SAND, but with little organics.	87%
			Reddish-tan fine grained SAND with little fine to coarse gravel, wet	
90			Tannish fine to medium SAND with trace fine to coarse gravel, wet. By 93', greyish tan medium to coarse SAND with trace fine to coarse gravel, wet. Hit bedrock at ~95'	80%
95				
100			Light gray sandy SILTSTONE, dark gray micaceous, competent BX. Dry	81%

Well AJ06-MW-02
Elev 635.55'

PVC

Grout

AJ06-MW02

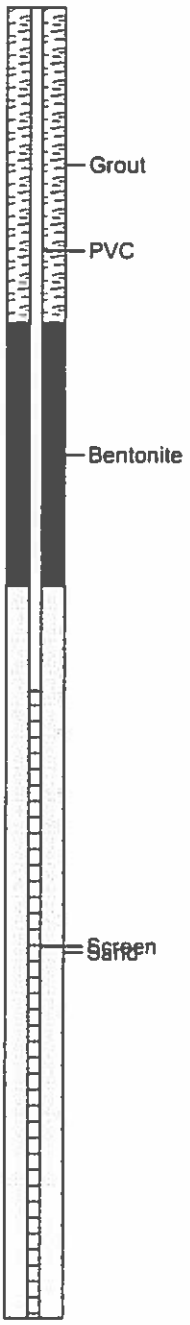
DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	July 10, 2002	Sampling Method	Continous
Date Completed	July 12, 2002	Northing (WV St Pl)	464393.33
Well Diameter	2"	Easting Coord.	2238081.33
Drilling Method	Rotosonic	Survey By	Vernon
Company	Bowser Morner	Logged By	L. Tilton, G. Donahue

Well: AJ06-MW-02
Elev.: 635.55'

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
100				
			Light gray clayey fracture zone, dry, trace micaceous.	
			Light gray medium to coarse silty SANDSTONE, micaceous, moist.	
105				81%
			Light gray clayey SANDSTONE, medium to coarse, micaceous, moist.	
			Light to slightly darker gray clayey SILTSTONE, wet, fractured, micaceous.	
110				
			LIght gray silty SANDSTONE, dry, very micaceous.	
			Coarse gravelly light gray CLAY, micaceous.	
			Light gray silty SANDSTONE, micaceous, fractured.	
115				
			Light gray SANDSTONE, medium to coarse, micaceous, dry to moist.	97%
			Light gray sandy SILTSTONE, layered light and dark gray beds, micaceous, dry.	
			Light gray medium grained SANDSTONE, dry.	
120				
			Light gray coarse-grained SANDSTONE, micaceous, dry to moist.	93%
			Light gray, fine to medium grained SHALE, dry, some dark gray color, micaceous.	
125				



AJ06-MW02

DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	July 10, 2002	Sampling Method	Continous
Date Completed	July 12, 2002	Northing (WV St Pl)	464393.33
Well Diameter	2"	Easting Coord.	2238081.33
Drilling Method	Rotosonic	Survey By	Vernon
Company	Bowser Morner	Logged By	L. Tilton, G Donahue

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
125			Lt gray, medium to coarse silty SANDSTONE, dry.	
			Lt gray fine to medium SILTSTONE, micaceous, dry.	
			Lt gray fine grained SILTSTONE, micaceous, dry, some brownish gray color streaks.	
			Gray, clayey SHALE, fractured, wet.	93%
130			Light gray, red and green clayey SHALE, moist to wet, slickensides, some yellow found, mottling.	
			TD hole at 134'. Next day, TD was 128.5' (slumpage?).	
135				
140				
145				
150				

Well: AJ06-MW-02
Elev.: 635.55'



URS

N04-MW03

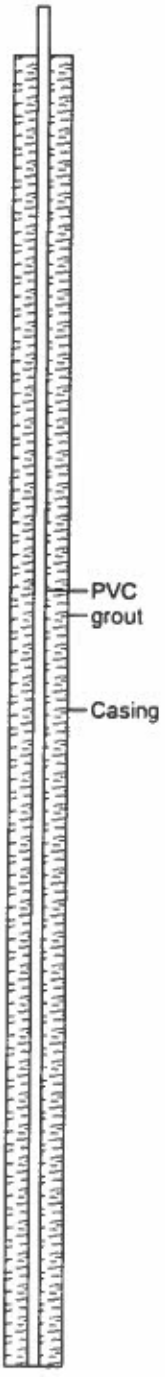
DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	: July 22, 2002	Company	: Bowser Morner
Date Completed	: July 24, 2002	Northing (WV St Pl)	: 463896.38'
Well Diameter	: 2"	Easting Coord.	: 2233587.79'
Drilling Method	: Rotosonic	Survey By	: Vernon
Sampling Method	: Continous	Logged By	: Steve Opp?

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
0			Forrest duff, topsoil w/ some organics, dark brown, moist	
			Tannish brown, silty F SAND, little organics, moist	
5			Well Graded, yellowish brown, SILTY CLAY, brown, little mica and mottling	88%
10			SILTY CLAY, brown, some fine grained SAND, micaceous, wet	100%
15				
20			Brown, SILTY CLAY, some fine grained Sand, wet, little micaceous	101%
25				
			Grades to brown clayey fine grained SAND, wet, little micaceous	
30				

Well: N04-MW03
Elev.: 595.44'



N04-MW03

DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	July 22, 2002	Company	Bowser Morner
Date Completed	July 24, 2002	Northing (WV St Pl)	463896.38'
Well Diameter	2"	Easting Coord.	2233587.79'
Drilling Method	Rotosonic	Survey By	Vernon
Sampling Method	Continous	Logged By	Steve Opp?

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
30			CLAYEY SAND, brown, fine grained, wet, micaceous, little silt	
			Brown, silty, clayey SAND, fine to coarse grain, wet, with some fine to course well rounded gravel	86%
35			Dark brown fine to course SAND, some fine to course gravel, wet, clean sand	
40			Brown fine to course SAND, some fine to course gravel, wet, clean sand	106%
45			Tannish brown, fine to medium SAND, little clay and silt, wet	
			Dark brown to brown, SAND, fine grained, some fine to medium gravel, wet, clean sand	
50			Black & tan fine to course grained SAND, some fine to course gravel, wet	100%
			Tan to gray layer course well rounded GRAVEL, wet	
55			Grey silty SHALE, very weathered, micaceous, dry, grades to weatherd and becomes more competant	Casing
60				

Well: N04-MW03
Elev.: 595.44'



URS

N04-MW03

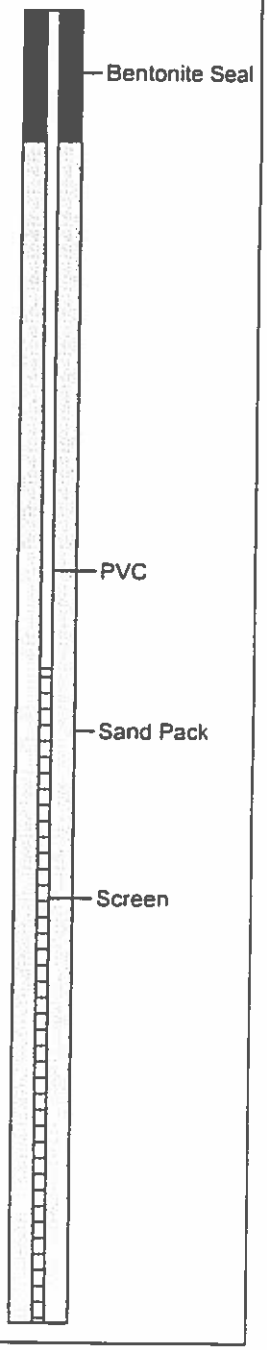
DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	: July 22, 2002	Company	: Bowser Morner
Date Completed	: July 24, 2002	Northing (WV St Pl)	: 463896.38'
Well Diameter	: 2"	Easting Coord.	: 2233587.79'
Drilling Method	: Rotosonic	Survey By	: Vernon
Sampling Method	: Continous	Logged By	: Steve Opp?

Well: N04-MW03
Elev.: 595.44'

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
60			SANDSTONE, wet, grey with course sand & gravel mix	100% / PID = 42 ppm
65				
70			Fractured SANDSTONE, wet, grey, course sand & gravel mix	80%
			SANDSTONE, grey, wet, little micaceous, fine to medium grain	
			Gray SHALE, moist to dry, fine grain, some clay	
75			Hard CLAY, dry to moist, mostly brown with streaks of red, yellow, and grey, some mottling PID readings were as high as 10,000 ppm	
80			SILTSTONE, fine to course grains, dry, dark to light grey	85%
			Dark brown SHALE, wet, fine to medium grain, some moist Siltstone	
85			CLAY, moist, reddish brown, fine to medium grain	
			Dark brown SHALE, moist	
90				



URS

Y14-MW-02

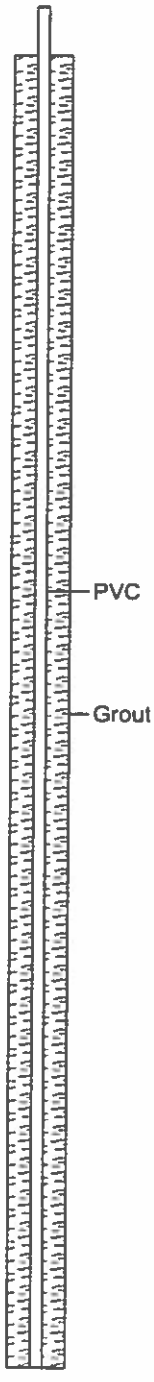
DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	August 18, 2002	Company	Bowser Morner
Date Completed	August 22, 2002	Northing (WV St Pl)	463896.38'
Well Diameter	2"	Easting Coord.	2233587.79'
Drilling Method	Rotosonic	Survey By	Vernon
Sampling Method	Continous Coring	Logged By	Lucinda Tilton

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
0			stiff, Reddish brown clayey SILT w/ some fill materials (small gravel, debris, etc). Dry.	
5			Reddish brown silty CLAY w/ orange and grey mottling, moist.	100%
10			Brown silty CLAY, moist.	
15			Brown/grey silty CLAY w/ cobbles and small gravel, moist.	70%
			SAND, Tannish brown silty SAND w/ ~40% unsorted gravel, moist. Recovery 6.5' of 10'.	
20				65%
25				

Well: Y14-MW-02
Elev.: 643.12'



URS

Y14-MW-02

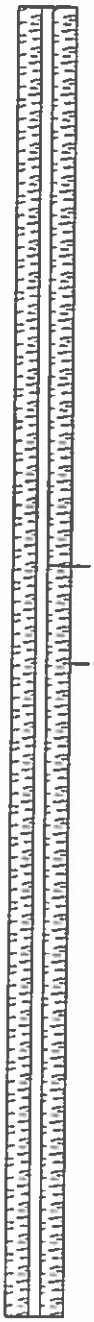
DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	: August 18, 2002	Company	: Bowser Morner
Date Completed	: August 22, 2002	Northing (WV St Pl)	: 463896.38'
Well Diameter	: 2"	Easting Coord.	: 2233587.79'
Drilling Method	: Rotosonic	Survey By	: Vernon
Sampling Method	: Continous Coring	Logged By	: Lucinda Tilton

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
25				65%
30			Brown, finge grained SAND w/ some gravel, moist.	6%
35				
40				65%
45				
50				

Well: Y14-MW-02
Elev.: 643.12'



URS

Y14-MW-02

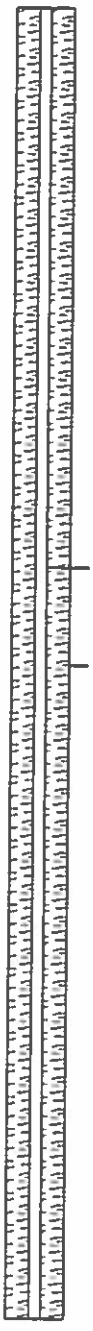
DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	August 18, 2002	Company	Bowser Morner
Date Completed	August 22, 2002	Northing (WV St Pl)	463896.38'
Well Diameter	2"	Easting Coord.	2233587.79'
Drilling Method	Rotosonic	Survey By	Vernon
Sampling Method	Continous Coring	Logged By	Lucinda Tilton

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
50				50%
55				
60			Brown fine to medium, fairly clean SAND w/ trace gravel, moist, 1" layer of charcoal.	60%
65				
70			Greyish-brown fine grained SAND with trace gravel, very moist. 3' of 10' recovery.	30%
75				

Well: Y14-MW-02
Elev.: 643.12'



URS

Y14-MW-02

DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	August 18, 2002	Company	Bowser Morner
Date Completed	August 22, 2002	Northing (WV St Pl)	463896.38'
Well Diameter	2"	Easting Coord.	2233587.79'
Drilling Method	Rotosonic	Survey By	Vernon
Sampling Method	Continous Coring	Logged By	Lucinda Tilton

Well: Y14-MW-02
Elev.: 643.12'

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
75				30%
80			Greyish brown SILTSTONE with mica flecks.	
85			Dark brown fine to medium SAND w/ trace gravel, moist. At 92 feet have brown very fine grained SAND. At 93-94 feet, greyish brown medium grained SAND with some gravel. 94-94' Brown very fine grained SAND, moist. 95-100 feet, Greyish brown, medium grained SAND w/ some gravel, moist.	60%
90				
95				100%
100				

PVC

Grout

URS

Y14-MW-02

DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	August 18, 2002	Company	Bowser Morner
Date Completed	August 22, 2002	Northing (WV St Pl)	463896.38'
Well Diameter	2"	Easting Coord.	2233587.79'
Drilling Method	Rotosonic	Survey By	Vernon
Sampling Method	Continous Coring	Logged By	Lucinda Tilton

Well: Y14-MW-02
Elev.: 643.12'

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
100			Greenish gray GRAVEL with brown fine grained sand matrix, moist.	
			Greenish grey clayey SILT w/ greenish grey fine grained gravel, dry.	77%
105				
			Greyish green fine grained SANDSTONE.	
110			Brown silty CLAY with weathered fragments of greyish green fine grained sandstone throughout, WET.	
			Greyish green fine grained SANDSTONE.	65%
115				
			Reddish brown CLAY w/ sand, gravel and weathered green shale fragments, WET.	
120			Greyish green fine to medium grained SANDSTONE, very micaceous.	70%
125				

Grout
PVC
Bentonite seal
Sand pack
Well Screen

URS

Y14-MW-02

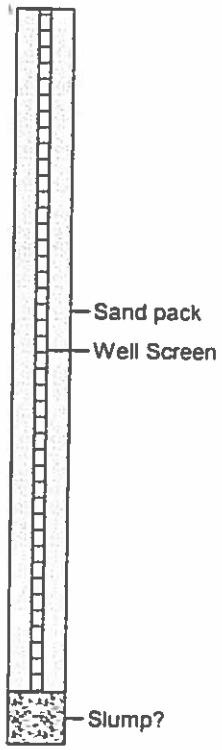
DuPont Corporate Remediation Group
Washington Works Consent Order
Well Installation
Main Plant

Project # 18983635.40000

Date Started	August 18, 2002	Company	Bowser Morner
Date Completed	August 22, 2002	Northing (WV St Pl)	463896.38'
Well Diameter	2"	Easting Coord.	2233587.79'
Drilling Method	Rotosonic	Survey By	Vernon
Sampling Method	Continous Coring	Logged By	Lucinda Tilton

Well: Y14-MW-02
Elev.: 643.12'

Depth in Feet	Surf. Elev.	GRAPHIC	DESCRIPTION	Recovery
125				70%
130			Greyish green medium grained SANDSTONE, slightly micaceous.	
135			Greyish greeen SILTSTONE, highly eathered with 3" single red/brown clay lens, WET.	100%
			Grey very fine grained SANDSTONE, highly weathered w/ greyish green clay lenses.	
140			TD @ ~139'.	
145				
150				



URS Diamond
Barley Mill Plaza, Building 19
Wilmington, Delaware 19805

Test Pit Number

TP - 1

Project Number:	**18984388**	Depth (BGS):	**4.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2005**
Subcontractor:	**AKSI**		
Method:	**Hand Dug**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(SM) brown sandy SILT	0.042 - dust monitor 0.000 - PID
1.0				(CL) brown silty CLAY with brick and black glass material	
2.0					
3.0				(CL) gray and black silty CLAY, dry	
4.0				**END of TEST PIT @ 4.0 ft**	
5.0					

URS Diamond
Barley Mill Plaza, Building 19
Wilmington, Delaware 19805

Test Pit Number

TP - 1 - A

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**No Sample**	(CL) brown silty CLAY	0.041 - dust monitor 0.000 - PID
-				(SC) brown sandy CLAY	
1.0					
-					
2.0					
				(SM) brown sandy SILT, dry	
-					
3.0					
-					
4.0					
-					
5.0					

END of TEST PIT @ 5.0 ft

URS Diamond
Barley Mill Plaza, Building 19
Wilmington, Delaware 19805

Test Pit Number

TP - 2

Project Number:	**18984388**	Depth (BGS):	**4.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0	**Grab - Bulk**	**Trowel**	**No Sample**	(CL) brown silty CLAY	0.037 - dust monitor 0.000 - PID
1.0				(SM) brown silty SAND	
2.0				Black Cinders, dry	
3.0					
4.0				**END of TEST PIT @ 4.0 ft**	
5.0					

URS Diamond
Barley Mill Plaza, Building 19
Wilmington, Delaware 19805

Test Pit Number

TP - 3

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**		(CL) brown silty CLAY	0.000 - PID
-					
1.0				(SM) brown silty SAND	
-					
2.0					
-					
3.0			**TP-3-2.8ft**	Black Cinders, dry	
-					
4.0					
-					
5.0					

END of TEST PIT @ 5.0 ft

URS Diamond
Barley Mill Plaza, Building 19
Wilmington, Delaware 19805

Test Pit Number

TP - 4

Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/7/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**		(CL) brown silty CLAY	0.040 - dust monitor 0.000 - PID
-				(SM) brown sandy SILT	
1.0					
-					
2.0					
-					
3.0					
			TP-4-3.2ft	Black Cinders, dry	
-					
4.0					
-					
5.0					

END of TEST PIT @ 5.0 ft

URS Diamond
Barley Mill Plaza, Building 19
Wilmington, Delaware 19805

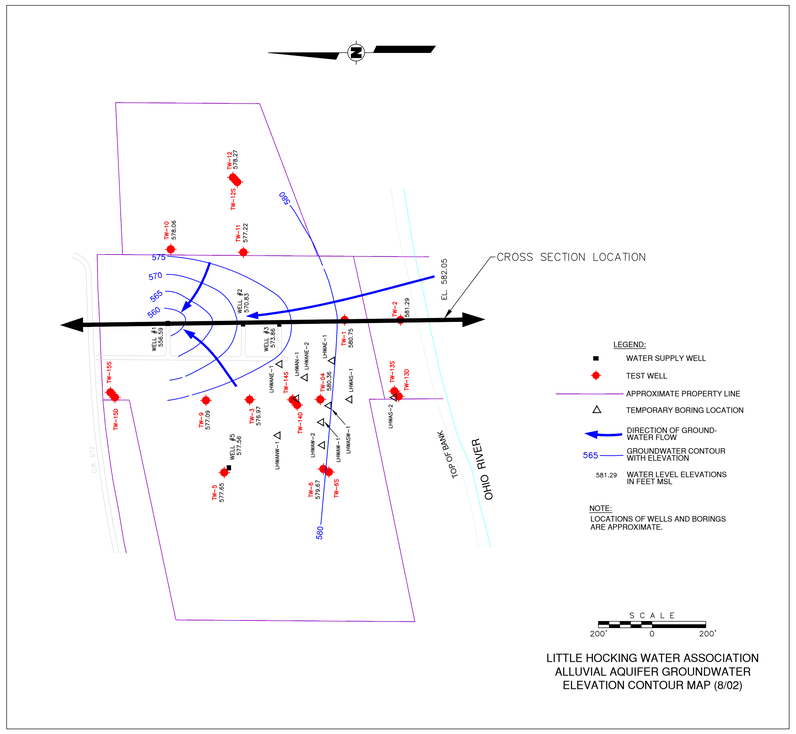
Test Pit Number

TP - 5

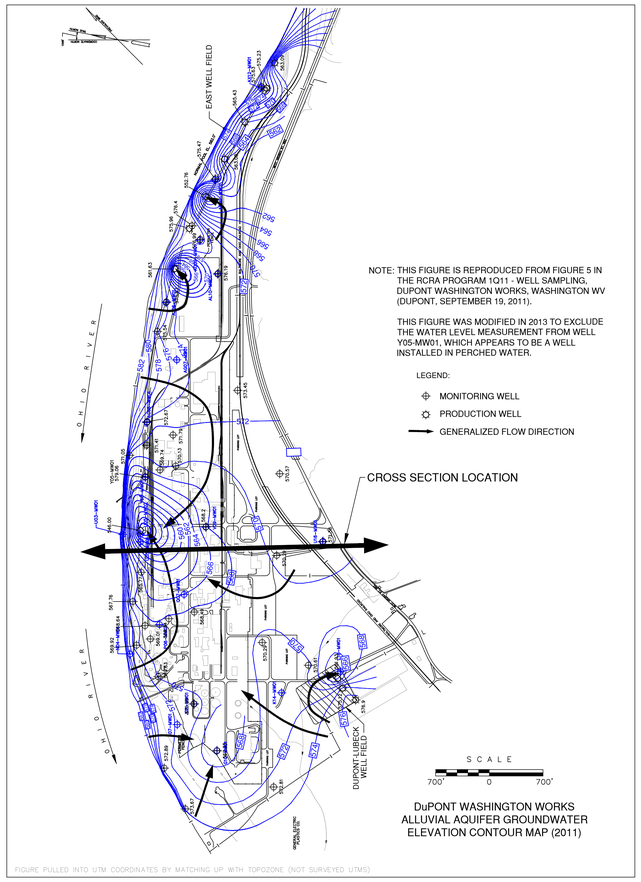
Project Number:	**18984388**	Depth (BGS):	**5.0 ft**
Project Name:	**Riverbank Landfill**	Ground Surface Elevation:	**N/A**
Location:	**Washington Works, WV**	Date:	**6/8/2005**
Subcontractor:	**AKSI**		
Method:	**Mini-Excavator**		
Site Rep:	**TWC**		

Depth	Samples	Sampling Method	Sample Number	Soil Description	Comments
0.0					
	Grab - Bulk	**Trowel**	**TP-5-0.4ft**	(CL) brown silty CLAY	0.000 - PID
-				Black Cinders	
1.0					
-				(SM) brown silty SAND	
				Hard gray waste material	
2.0					
-					
3.0				(CL) brown silty CLAY, dry	
-					
4.0					
-					
5.0					

END of TEST PIT @ 5.0 ft



LITTLE HOCKING WATER ASSOCIATION
ALLUVIAL AQUIFER GROUNDWATER
ELEVATION CONTOUR MAP (8/02)

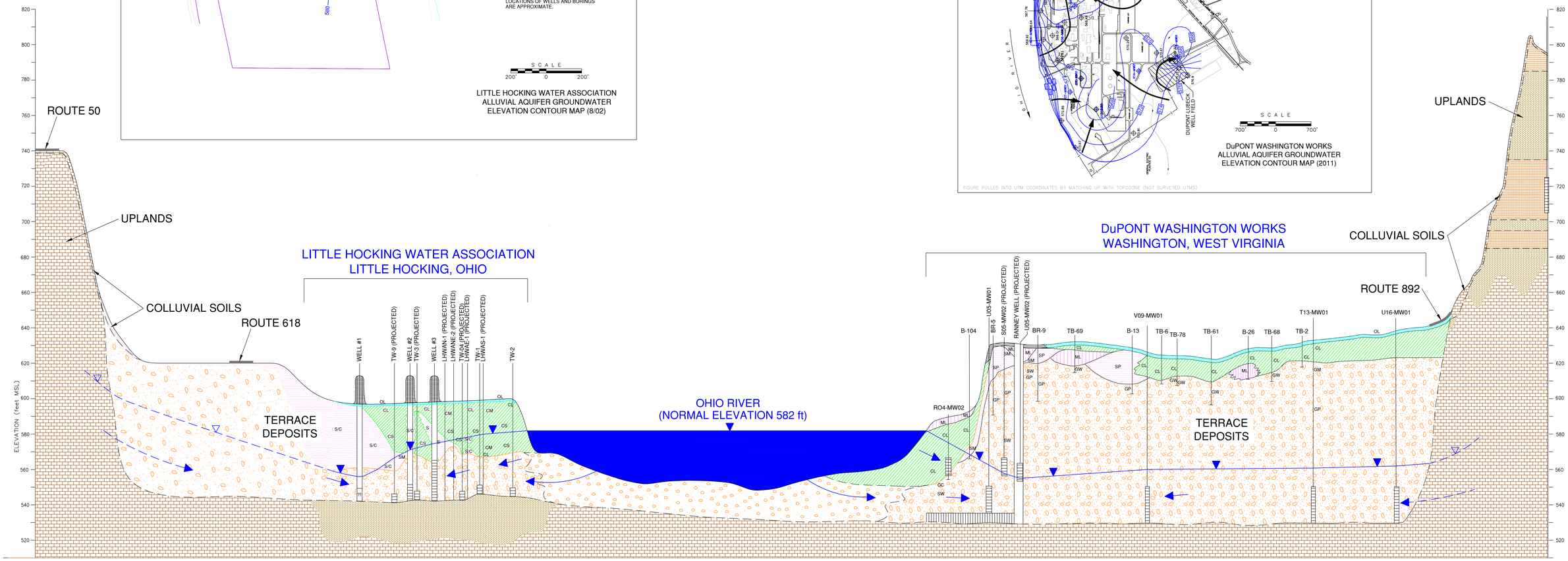


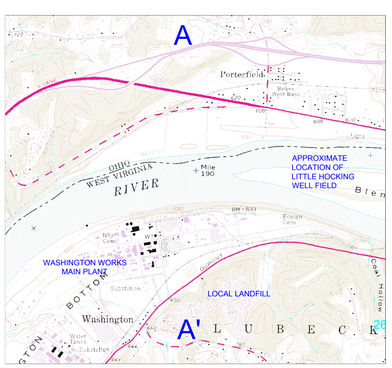
DuPONT WASHINGTON WORKS
ALLUVIAL AQUIFER GROUNDWATER
ELEVATION CONTOUR MAP (2011)

FIGURE PULLED INTO UTM COORDINATES BY MATCHING UP WITH TOPOZONE (NOT SURVEYED UTMS)

North
A

South
A'





20 FT
10
0 240 FT

LEGEND

TERRACE DEPOSITS
- HOLOCENE OVERBANK DEPOSITS
  - FILL
  - TOPSOIL - OL = ORGANIC SILT AND SILTY CLAY
  - OVERBANK DEPOSITS (UNDIFFERENTIATED).
    - SILT - ML = INORGANIC SILT
    - CLAY - CM = SILTY CLAY
      - .CS = SANDY CLAY
      - .CM/CS = SILTY, SANDY CLAY
      - .CL = CLAY
- PLEISTOCENE GLACIAL OUTWASH DEPOSITS
  - SAND - S/C = SAND AND CLAY
    - .SM = SILTY SAND, SAND-SILT
  - MIXTURE
    - .SP = SAND AND GRAVELY SAND
    - .S = SAND
  - SAND AND GRAVEL - GP = GRAVEL SAND MIXTURE
    - SW = GRAVELY SAND
    - GC = GRAVEL-SAND-CLAY
  - MIXTURE REWORKED SAND AND GRAVEL

UPLANDS
- PERMIAN DUNKARD GROUP BEDROCK
  - BEDROCK (UNDIFFERENTIATED)
  - SHALE
  - SANDSTONE

- APPROXIMATE GEOLOGIC CONTACT
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- WATER LEVEL (ESTIMATED FROM ALLUVIAL AQUIFER GROUNDWATER CONTOUR ELEVATION MAPS PROVIDED ABOVE).
- APPROXIMATER WATER LEVEL
- HIGHWAYS / ROUTES

- WELL HOUSE MOUND
- BEDROCK WELL
- MONITORING WELL
- RANNEY WELL



HORIZONTAL SCALE
200' 0 200'
VERTICAL SCALE
20' 0 20'

DESIGNED	MPS
DRAWN	SCD
CHECKED	KLD
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	
INITIALS	

URS
URS Corporation
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713
Phone: 302-781-5900

GEOLOGIC CROSS-SECTION A-A'

DuPONT WASHINGTON WORKS
WASHINGTON, WEST VIRGINIA

SCALE	DATE	CAD FILE NO.	FIGURE
AS NOTED	4/10/14		1-13

Appendix C

Groundwater Elevation Measurements and Groundwater Elevation Surface Maps from Corrective Measures Assessment Reports 2019-2022 and Previous Reports

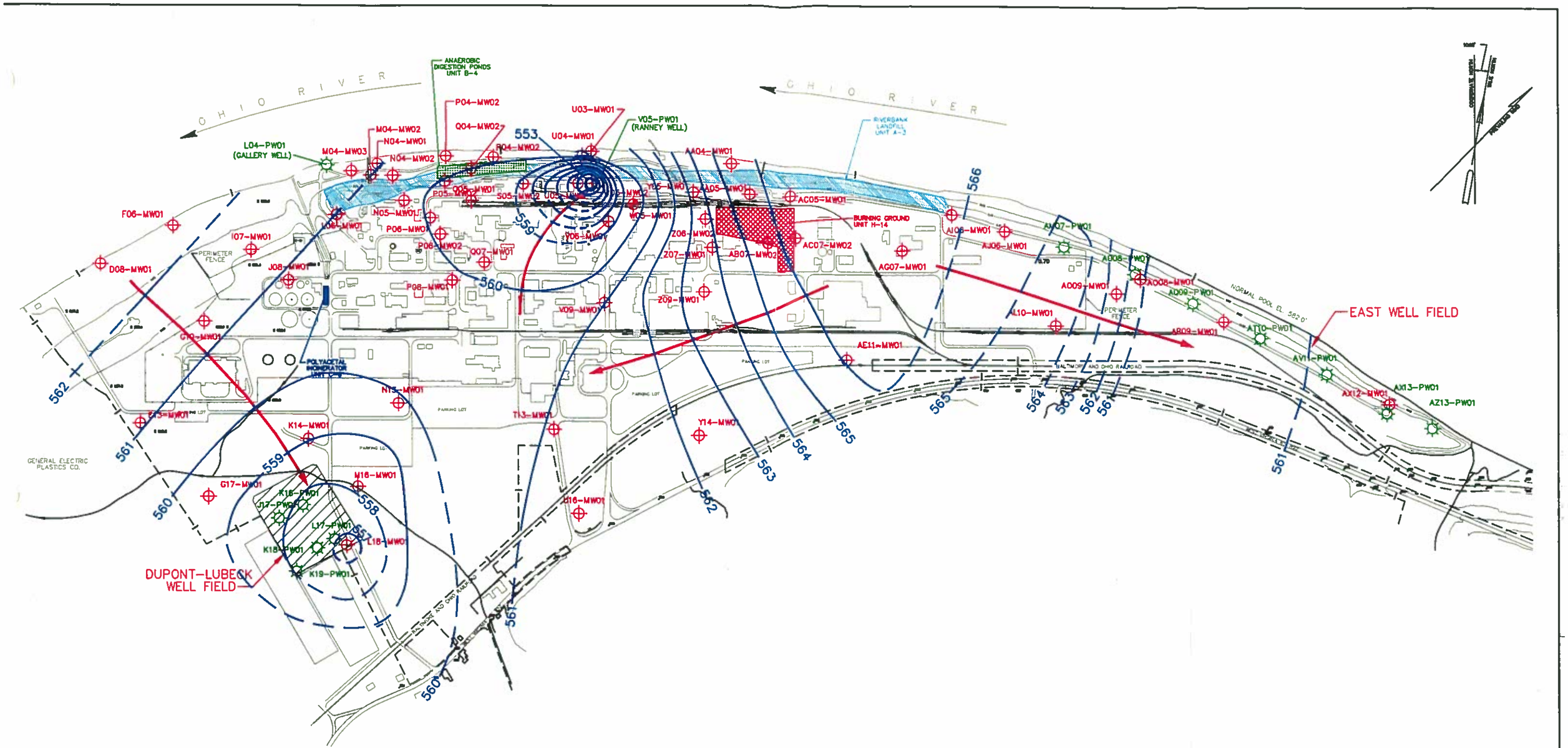
C-8 DATA SUMMARY REPORT
CONSENT ORDER GWR-2001-019
DUPONT WASHINGTON WORKS
FACILITY AND LOCAL, LETART AND DRY RUN LANDFILLS

Date: February 2003

Project No.: 7423
18983753.00036

CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Diamond

Barley Mill Plaza, Building 27
Wilmington, Delaware 19805



LEGEND

- D08-MW01 = MONITORING WELL
- J17-PW01 = PRODUCTION WELL
- = APPROXIMATE GROUNDWATER FLOW DIRECTION
- = GROUNDWATER ELEVATION CONTOUR

SCALE

700 0 700'

DESIGNED	INITIALS
KLD	
DRAWN	
DEL	
CHECKED	
MPS	
APPROVED(DESIGN)	
ASH	
APPROVED(CONSTRUCTION)	

DUPONT

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Wilmington, Delaware 19805

REVISED – FEBRUARY 2002
GROUNDWATER ELEVATION MAP

DuPont Washington Works Main Plant
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As shown	12/11/02	FEB2002	3.18

Table 3.14
Synoptic Groundwater Elevations February 2002 and Well Screen Locations
DuPont Washington Works Facility Washington, West Virginia

New ID	Measuring Point Elevation (feet) *	Old ID	February 2002 DTW	February 2002 Groundwater Elevation (feet)	Screen Locations
AC05-MW01	635.22	TW-E6	68.6	566.62	site primary aquifer
AL10-MW01	631.61	TW-M1	67.12	564.49	site primary aquifer
AO08-MW01	636.02	TW-48	74.93	561.09	site primary aquifer
AO09-MW01	632.89	TW-26	70.32	562.57	site primary aquifer
AR09-MW01	635.27	TW-38	75.01	560.26	site primary aquifer
AX12-MW01	635.23	TW-39	73.81	561.42	site primary aquifer
D08-MW01	600.67	TW-M5	37.98	562.69	site primary aquifer
F06-MW01	601.14	TW-M6	38.9	562.24	site primary aquifer
I07-MW01	610.23	TW-M3	49.18	561.05	site primary aquifer
J08-MW01	630.21	TW-20	69.8	560.41	site primary aquifer
K14-MW01	627.34	TW-M4	68.25	559.09	site primary aquifer
L18-MW01	635.82	TW-27	78.87	556.95	site primary aquifer
M16-MW01	627.14	TW-55	68.9	558.24	site primary aquifer
N04-MW01	594.48	TW-32	16.46	578.02	perched water table
N13-MW01	625.87	TW-54	65.95	559.92	site primary aquifer
P08-MW01	629.29	TW-53	69.19	560.1	site primary aquifer
Q04-MW02	598.76	TW-50	38.71	560.05	site primary aquifer
T13-MW01	632.69	TW-24	71.59	561.1	site primary aquifer
U05-MW02	631.17	TW-P12	79.02	552.15	site primary aquifer
U16-MW01	638.23	TW-25	76.5	561.73	site primary aquifer
V09-MW01	628.5	TW-3(pw-3)	67.38	561.12	site primary aquifer
Y05-MW01	631.16	TW-E5	67.48	563.68	site primary aquifer
Z07-MW02	632.49	TW-22	67.9	564.59	site primary aquifer
AA04-MW01	599.95	TW-70	34.4	565.55	site primary aquifer
AA05-MW01	633.32	TW-71	67.71	565.61	site primary aquifer
AB07-MW02	633.02	TW-72	67.41	565.61	site primary aquifer
AE11-MW01	628.94	TW-74	62.92	566.02	site primary aquifer
E13-MW01	625.47	TW-76	64.35	561.12	site primary aquifer
G17-MW01	632.81	TW-77	73.35	559.46	site primary aquifer
M04-MW02	595.51	TW-79	13.42	582.09	perched water table
M04-MW03	595.43	TW-80	13.93	581.5	perched water table
N04-MW02	595.82	TW-81	13.78	582.04	perched water table
N05-MW01	633.17	TW-82	73.18	559.99	site primary aquifer
P04-MW02	592.39	TW-83	20.48	571.91	perched water table
P05-MW02	631.24	TW-84	71.14	560.1	site primary aquifer
R04-MW02	594.92	TW-85	18.53	576.39	perched water table
S05-MW02	630.64	TW-86	71.66	558.98	site primary aquifer
U04-MW01	595.43	TW-87	11.97	583.46	perched water table
V06-MW01	629.49	TW-88	70.53	558.96	site primary aquifer
W05-MW01	629.9	TW-89	70.42	559.48	site primary aquifer
Y14-MW01	642.25	TW-90	80.1	562.15	site primary aquifer
Z06-MW02	629.21	TW-91	65.2	564.01	site primary aquifer
Z07-MW01	632.98	TW-92	68.97	564.01	site primary aquifer
Z09-MW01	624.65	TW-93	60.95	563.7	site primary aquifer

* All Measuring Point Elevation data is from Vernon surveys in 1989 or 1998.

COMPILATION OF HISTORICAL C-8 DATA
DUPONT WASHINGTON WORKS
MAIN PLANT AND LANDFILLS

Date: January 2002

Project No: D6WW7423

CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Diamond

Barley Mill Plaza, Building 27
Wilmington, Delaware 19805



LEGEND

D08-MW01 = MONITORING WELL

J17-PW01 = PRODUCTION WELL

= APPROXIMATE DIRECTION OF GROUNDWATER FLOW

564- - - = GROUNDWATER ELEVATION CONTOUR, APPROXIMATE (NOVEMBER, 2000)

SCALE

700 0 700'

DESIGNED	INITIALS
SJO	
DRAWN	
DEL	
CHECKED	
TDL	
APPROVED(DESIGN)	
ASH	
APPROVED(CONSTRUCTION)	

DUPONT

Corporate Remediation Group

An Alliance between DuPont and URS Diamond

Barley Mill Plaza, Building 27
Wilmington, Delaware 19805

GROUNDWATER ELEVATION CONTOUR MAP – NOVEMBER 2000

DuPont Washington Works Main Plant
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As shown	11/20/01	742280008	2.5A

RCRA FACILITY INVESTIGATION REPORT
DUPONT WASHINGTON WORKS
WASHINGTON, WEST VIRGINIA
USEPA PERMIT NUMBER WVD04-587-5291

June 30, 1999

Project No. 0D6W7205

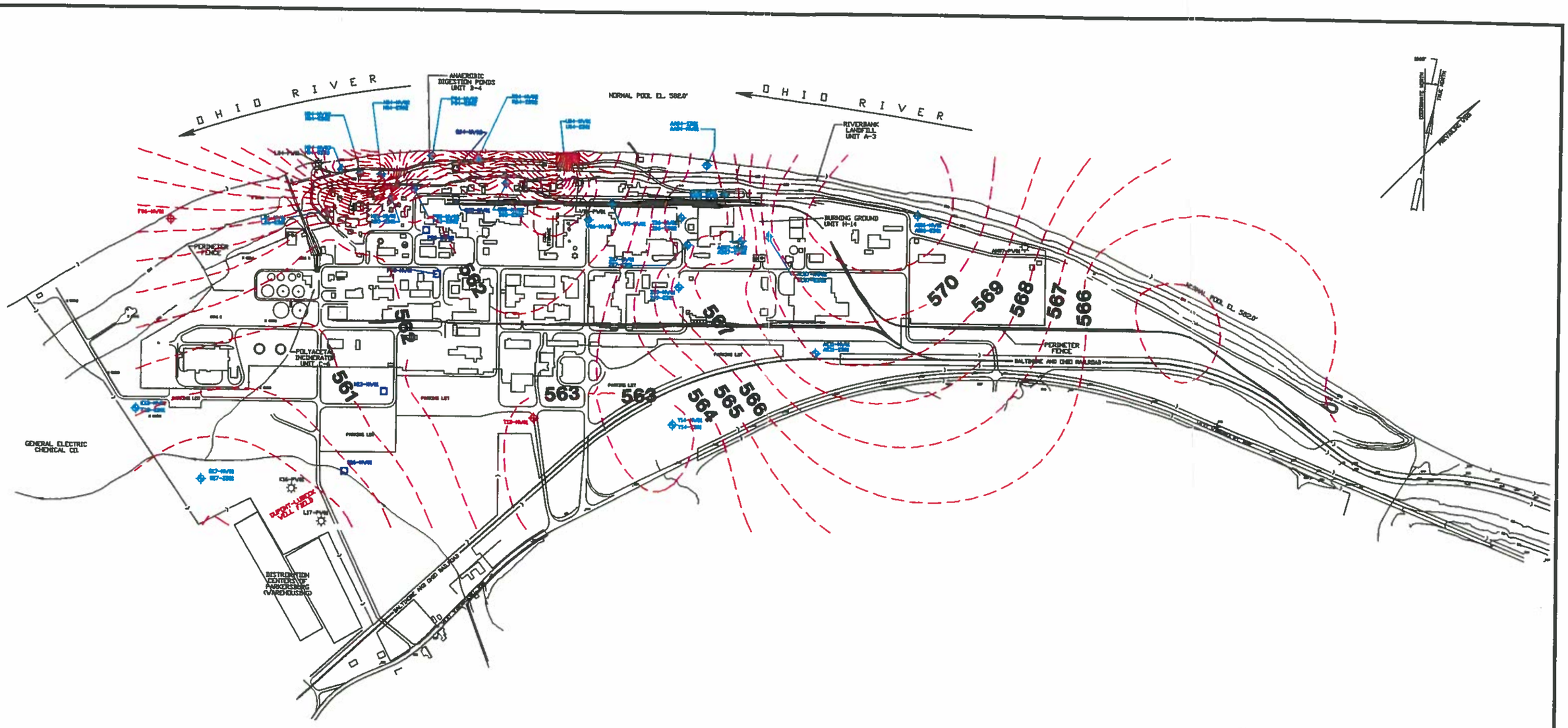
CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and The W-C Diamond Group

Barley Mill Plaza, Building 27
Wilmington, Delaware 19880-0027

Michael A. Turco, for
Elizabeth Bishop
W-C Diamond
Project Manager

Andrew S. Hartten
Andrew Hartten
DuPont CRG
Project Director

J. Stephen Opp
J. Stephen Opp
W-C Diamond
Deputy Project Manager

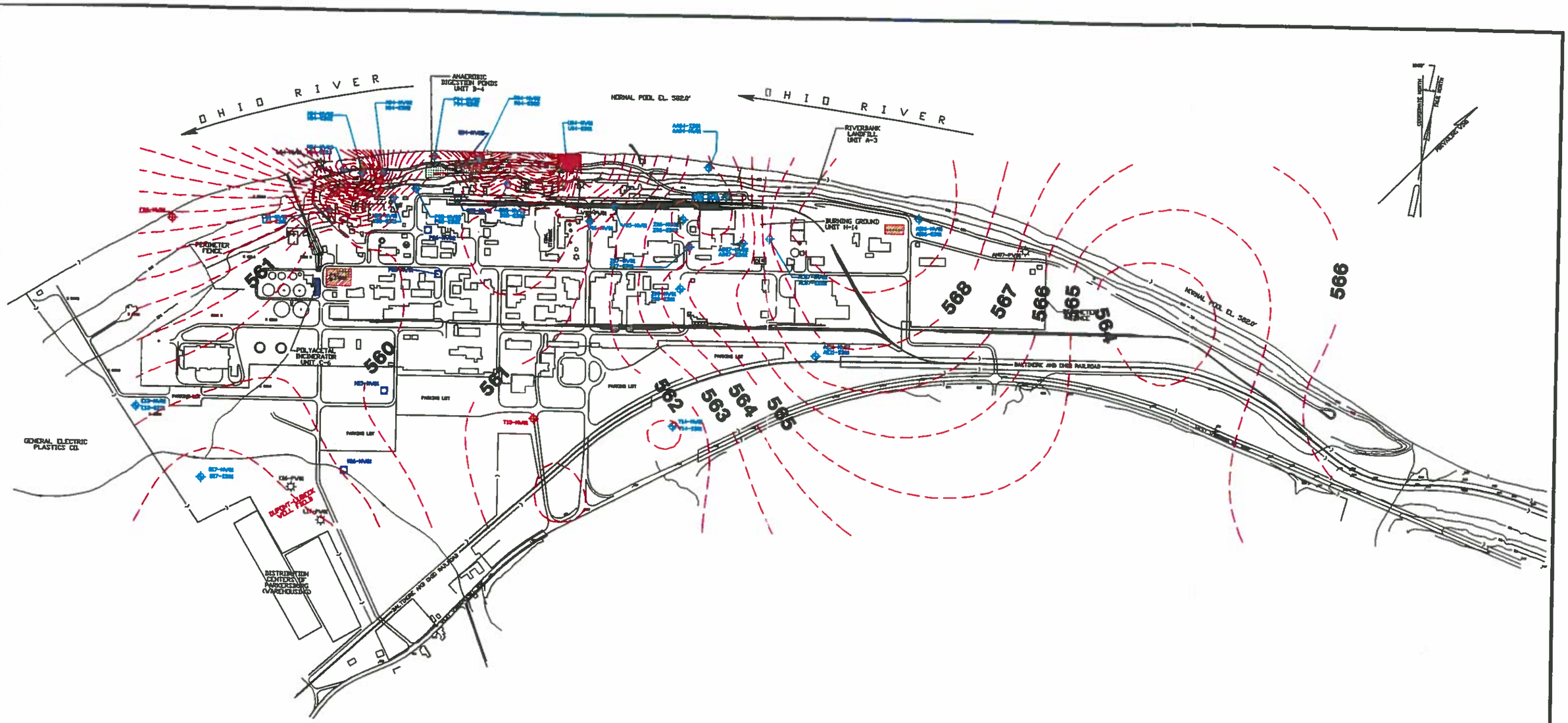


Corporate Remediation Group
An Alliance between DuPont and The W-C Diamond Group
Barley Mill Plaza, Building 27
Wilmington, Delaware 19880-0027

TITLE:
GROUNDWATER ROUND 1 (NOVEMBER, 1998) ELEVATION CONTOURS IN MEAN SEA LEVEL
DuPONT WASHINGTON WORKS
WASHINGTON, WEST VIRGINIA

DWN: DHE	DES.:	FILE NUMBER: 7205C003	
CHKD: SJO	APPD:		
DATE: 05/24/99	REV.: 0	FIGURE NO.: 2.7	

Figure 2.7



DUPONT

Corporate Remediation Group

An Alliance between DuPont and The W-C Diamond Group

Barley Mill Plaza, Building 27
Wilmington, Delaware 19880-0027

TITLE:

GROUNDWATER ROUND 2 (FEBRUARY, 1999) ELEVATION CONTOURS IN MEAN SEA LEVEL
DuPONT WASHINGTON WORKS
WASHINGTON, WEST VIRGINIA

DWN: DHE	DES.:	FILE NUMBER: 7205C004	
CHKD: SJO	APPD:		
DATE: 05/24/99	REV.: 0	FIGURE NO.: 2.8	

Figure 2.8

TABLE 3.5

GROUNDWATER ROUND 1 DEPTH TO WATER MEASUREMENTS
RCRA FACILITY INVESTIGATION
DUPONT WASHINGTON WORKS PLANT

Well Number	Test Well ID	Date	Time	Depth to Bottom	Depth to Water	Feet of Water	Gallons per Foot	Well Volume	Three Well Volumes
AA04-MW01	TW-70	11/9/98	1117	44.44	31.7	12.74	0.163	2.08	6.23
AA05-MW01	TW-71	11/9/98	1505	73.11	65.13	7.98	0.163	1.30	3.90
AB07-MW02	TW-72	11/9/98	1445	75.01	64.83	10.18	0.163	1.66	4.98
AC07-MW02	TW-73	11/9/98	1438	73.14	63.12	10.02	0.163	1.63	4.90
AE11-MW01	TW-74	11/9/98	1134	71.52	60.33	11.19	0.163	1.82	5.47
AI06-MW01	TW-75	11/9/98	1427	71.61	62.11	9.5	0.163	1.55	4.65
AM07-PW01	336					na	na	na	na
E13-MW01	TW-76	11/9/98	1224	76.58	63.33	13.25	0.163	2.16	6.48
F06-MW01	TW-M6	11/9/98	1215	62.8	36.53	26.27	0.653	17.15	51.46
G17-MW01	TW-77	11/9/98	1205	82.49	72.4	10.09	0.163	1.64	4.93
K16-PW01	L4 (354)					na	na	na	na
L04-PW01	Gallery					na	na	na	na
L06-MW01	TW-78	11/13/98	1048	77.96	66.8	11.16	0.163	1.82	5.46
L17-PW01	L1 (351)					na	na	na	na
M04-MW02	TW-79	11/9/98	1051	26.86	15.02	11.84	0.163	1.93	5.79
M04-MW03	TW-80	11/9/98	1049	28.28	15.19	13.09	0.163	2.13	6.40
M16-MW01	TW-55	11/9/98	1155	71.57	67.32	4.25	0.163	0.69	2.08
N04-MW02	TW-81	11/9/98	1055	28.51	15.39	13.12	0.163	2.14	6.42
N05-MW01	TW-82	11/13/98	1200	82.15	70.55	11.6	0.163	1.89	5.67
N13-MW01	TW-54	11/9/98	1417	70.48	64	6.48	0.163	1.06	3.17
P04-MW02	TW-83	11/9/98	1059	30.02	23.64	6.38	0.163	1.04	3.12
P05-MW02	TW-84	11/13/98	1402	79.86	68.95	10.91	0.163	1.78	5.33
P06-MW02	TW-52	11/13/98	1130	73.2	68.15	5.05	0.163	0.82	2.47
P08-MW01	TW-53	11/9/98	1539	72.19	66.46	5.73	0.163	0.93	2.80
Q04-MW02	TW-50	11/9/98	1045	41.9	35.54	6.36	0.163	1.04	3.11
Q05-MW01	TW-51	11/13/98	1019	69.88	67.88	2	0.163	0.33	0.98
R04-MW02	TW-85	11/9/98	1104	29.98	19.79	10.19	0.163	1.66	4.98
S05-MW02	TW-86	11/13/98	1534	76.65	69.61	7.04	0.163	1.15	3.44
T13-MW01	TW-24	11/9/98	1148	98.36	69.5	28.86	1.469	42.40	127.19
U04-MW01	TW-87	11/9/98	1109	29.38	11.96	17.42	0.163	2.84	8.52
V05-PW01	Ranney					na	na	na	na
V06-MW01	TW-88	11/9/98	1519	75.75	68.7	7.05	0.163	1.15	3.45
V09-MW01	TW-3	11/9/98	1525	100	na		2.611		
W05-MW01	TW-89	11/9/98	1510	75.8	68.64	7.16	0.163	1.17	3.50
Y14-MW01	TW-90	11/9/98	1140	93.42	77.89	15.53	0.163	2.53	7.59
Z06-MW02	TW-91	11/9/98	1459	71.13	62.79	8.34	0.163	1.36	4.08
Z07-MW01	TW-92	11/9/98	1456	76.68	66.39	10.29	0.163	1.68	5.03
Z09-MW01	TW-93	11/9/98	1450	70.25	58.57	11.68	0.163	1.90	5.71

TABLE 3.6

GROUNDWATER ROUND 2 DEPTH TO WATER MEASUREMENTS
RCRA FACILITY INVESTIGATION
DUPONT WASHINGTON WORKS PLANT

Well Number	Test Well ID	Date	Time	Depth to Bottom	Depth to Water	Feet of Water	Gallons per Foot	Well Volume	Three Well Volumes
AA04-MW01	TW-70	2/1/99	1502	44.44	33.37	11.07	0.163	1.80	5.41
AA05-MW01	TW-71	2/1/99	1119	73.11	67.66	5.45	0.163	0.89	2.67
AB07-MW02	TW-72	2/1/99	1144	75.01	66.5	8.51	0.163	1.39	4.16
AC07-MW02	TW-73	2/1/99	1111	73.14	64.78	8.36	0.163	1.36	4.09
AE11-MW01	TW-74	2/1/99	918	71.52	61.77	9.75	0.163	1.59	4.77
AI06-MW01	TW-75	2/1/99	1054	71.61	64.1	7.51	0.163	1.22	3.67
AM07-PW01	336					na	na	na	na
E13-MW01	TW-76	2/1/99	1019	76.58	64.16	12.42	0.163	2.02	6.07
F06-MW01	TW-M6	2/1/99	1008	62.8	38.32	24.48	0.653	15.99	47.96
G17-MW01	TW-77	2/1/99	949	82.49	72.96	9.53	0.163	1.55	4.66
K16-PW01	L4 (354)					na	na	na	na
L04-PW01	Gallery					na	na	na	na
L06-MW01	TW-78	2/1/99	1048	77.96	69.22	8.74	0.163	1.42	4.27
L17-PW01	L1 (351)					na	na	na	na
M04-MW02	TW-79	2/1/99	1524	26.86	10.27	16.59	0.163	2.70	8.11
M04-MW03	TW-80	2/1/99	1527	28.28	10.38	17.9	0.163	2.92	8.75
M16-MW01	TW-55	2/1/99	956	71.57	68.02	3.55	0.163	0.58	1.74
N04-MW02	TW-81	2/1/99	1520	28.51	10.42	18.09	0.163	2.95	8.85
N05-MW01	TW-82	2/1/99	1200	82.15	72.75	9.4	0.163	1.53	4.60
N13-MW01	TW-54	2/1/99	1031	70.48	65.38	5.1	0.163	0.83	2.49
P04-MW02	TW-83	2/1/99	1517	30.02	28.51	1.51	0.163	0.25	0.74
P05-MW02	TW-84	2/1/99	1237	79.86	70.03	9.83	0.163	1.60	4.81
P06-MW02	TW-52	2/1/99	1225	73.2	70.12	3.08	0.163	0.50	1.51
P08-MW01	TW-53	2/1/99	1220	72.19	68.47	3.72	0.163	0.61	1.82
Q04-MW02	TW-50	2/1/99	1514	41.9	37.54	4.36	0.163	0.71	2.13
Q05-MW01	TW-51	2/1/99	1240	69.88	68.57	1.31	0.163	0.21	0.64
R04-MW02	TW-85	2/1/99	1511	29.98	15.32	14.66	0.163	2.39	7.17
S05-MW02	TW-86	2/1/99	1245	76.65	70.51	6.14	0.163	1.00	3.00
T13-MW01	TW-24	2/1/99	928	98.36	70.91	27.45	1.469	40.32	120.97
U04-MW01	TW-87	2/1/99	1504	29.38	10.85	18.53	0.163	3.02	9.06
V05-PW01	Ranney					na	na	na	na
V06-MW01	TW-88	2/1/99	1157	75.75	69.44	6.31	0.163	1.03	3.09
V09-MW01	TW-3	2/1/99	1211	100	65.59	34.41	2.611	89.84	269.53
W05-MW01	TW-89	2/1/99	1510	75.8	69.28	6.52	0.163	1.06	3.19
Y14-MW01	TW-90	2/1/99	943	93.42	79.41	14.01	0.163	2.28	6.85
Z06-MW02	TW-91	2/1/99	1129	71.13	64.35	6.78	0.163	1.11	3.32
Z07-MW01	TW-92	2/1/99	1136	76.68	68.01	8.67	0.163	1.41	4.24
Z09-MW01	TW-93	2/1/99	1149	70.25	60.21	10.04	0.163	1.64	4.91

RCRA FACILITY INVESTIGATION PLAN

DuPont Washington Works
Washington, West Virginia

September 24, 1997 **DERS Project No. 7179**

Prepared by

DuPont Corporate Remediation Group &
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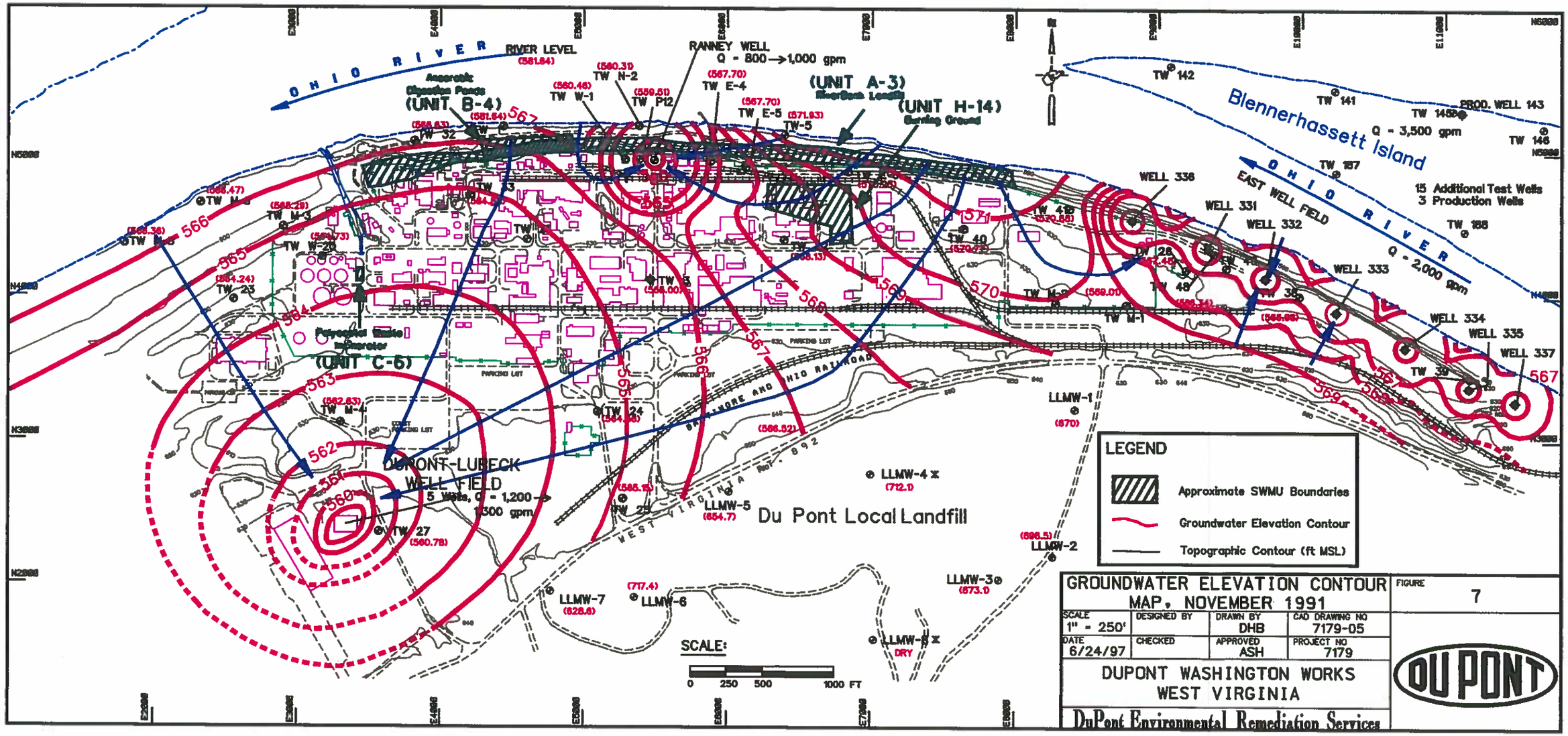
Wilmington, Delaware 19880-0027



OHIO RIVER
RIVER LEVEL
(581.84)
Anaerobic Digestion Ponds
(UNIT B-4)
RANNEY WELL
Q - 800 → 1,000 gpm
(UNIT A-3)
(UNIT H-14)
Burning Ground
Blennerhassett Island
Q - 3,500 gpm
PROD. WELL 143
15 Additional Test Wells
3 Production Wells
EAST WELL FIELD
Q - 2,000 gpm
WELL 336
WELL 331
WELL 332
WELL 333
WELL 334
WELL 335
WELL 337
(UNIT C-6)
DUPONT-LUBECK WELL FIELD
5 Wells, Q - 1,200 → 1,300 gpm
Du Pont Local Landfill
LLMW-1
LLMW-2
LLMW-3
LLMW-4
LLMW-5
LLMW-6
LLMW-7
LLMW-8
DRY
WEST VIRGINIA Rt. 892
BALTIMORE AND OHIO RAILROAD
PARKING LOT
SCALE:
0 250 500 1000 FT
LEGEND
Approximate SWMU Boundaries
Groundwater Elevation Contour
Topographic Contour (ft MSL)
GROUNDWATER ELEVATION CONTOUR MAP, NOVEMBER 1991
FIGURE 7
SCALE 1" = 250'
DESIGNED BY
DRAWN BY DHB
CAD DRAWING NO 7179-05
DATE 6/24/97
CHECKED
APPROVED ASH
PROJECT NO 7179
DUPONT WASHINGTON WORKS
WEST VIRGINIA
DuPont Environmental Remediation Services
DUPONT

VERIFICATION INVESTIGATION

E. I. du Pont de Nemours & Co.

Washington Works

April 1992

VOL. 1

Prepared for:

E. I. du Pont de Nemours and Company, Inc.
Washington Works
Parkersburg, West Virginia
April 1992

Prepared by:

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Ponca City, Oklahoma

ASH004705

ASH004706

WJW

VERIFICATION INVESTIGATION

E. I. du Pont de Nemours & Co.
Washington Works

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VOL 1

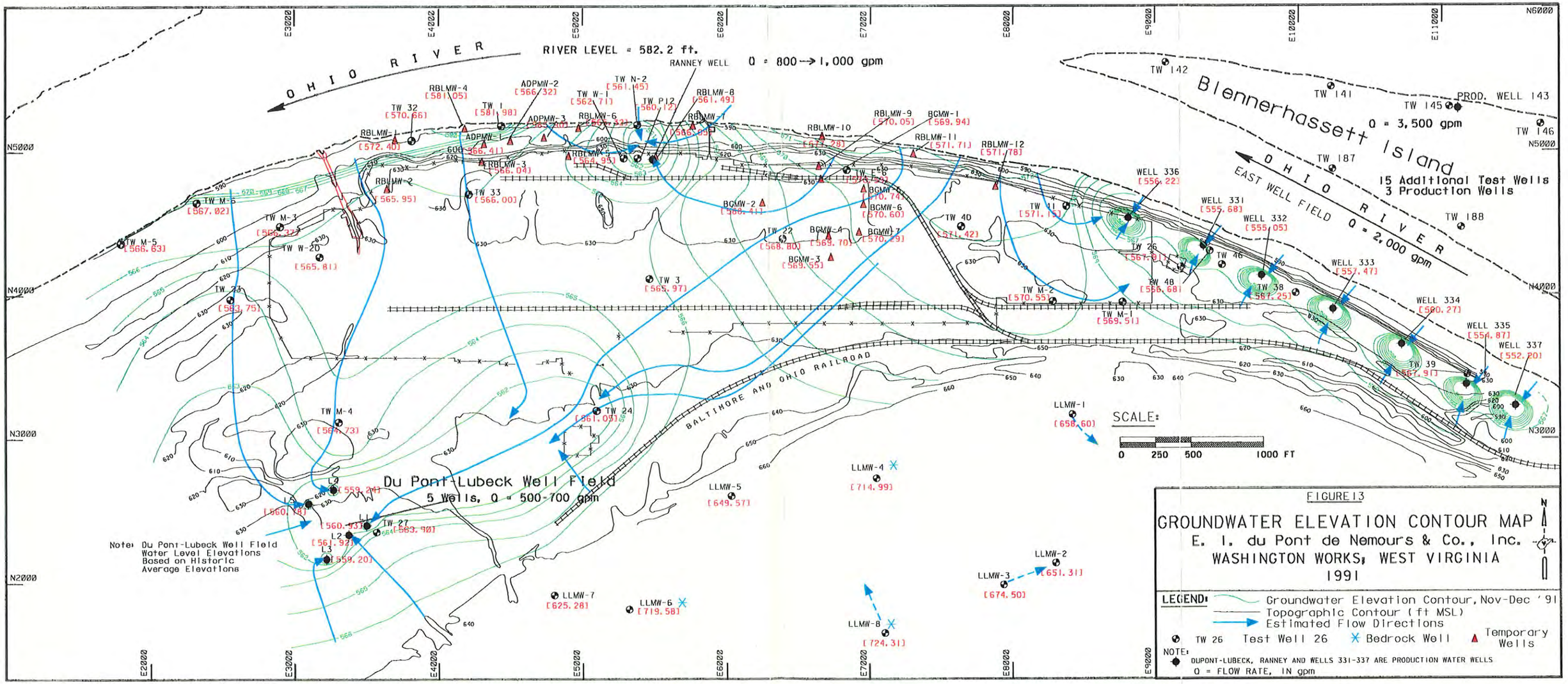

FIGURE 13

GROUNDWATER ELEVATION CONTOUR MAP
E. I. du Pont de Nemours & Co., Inc.
WASHINGTON WORKS, WEST VIRGINIA
1991

LEGEND:
- Groundwater Elevation Contour, Nov-Dec '91
- Topographic Contour (ft MSL)
- Estimated Flow Directions
- TW 26 Test Well 26
- Bedrock Well
- Temporary Wells

NOTE:
- DUPONT-LUBECK, RANNEY AND WELLS 331-337 ARE PRODUCTION WATER WELLS
- Q = FLOW RATE, IN gpm

APPENDIX A

HISTORIC AND RECENT GROUND WATER LEVEL DATA, SAMPLE SITE COORDINATES AND HISTORIC AQUIFER TEST DATA

ASH004939

APPENDIX A

HISTORIC AND RECENT GROUND WATER LEVEL DATA, SAMPLE SITE COORDINATES AND HISTORIC AQUIFER TEST DATA

CONTENTS

WATER LEVEL DATA
Plant Site
Local Landfill

HISTORIC AQUIFER TEST DATA
Plant Site
Local Landfill

TABLES

Table A-1 1991 Observation and Production Well Ground Water Level Elevations
Table A-2 Leachate and Upgradient Soil Sample Coordinates
Table A-3 1990 Observation and Production Well Ground Water Level Elevations
Table A-4 Specific Capacity Data For The East Field and Du Pont-Lubeck Water Production Wells

ASH004940

HISTORIC AND RECENT GROUND WATER LEVEL DATA, SAMPLE SITE COORDINATES AND HISTORIC AQUIFER TEST DATA

WATER LEVEL DATA

Plant Site

Water level depths, water level elevation data for 1991, and Du Pont coordinates of existing on-site monitor and production wells and the new temporary monitor wells are presented in Table A-1. Leachate and soil sample site coordinates are presented in Table A-2, and 1990 ground water level elevation data are presented in Table A-3. Water levels were measured using a QED Sample-Pro electric water level meter, model 6000. Top of well casing and ground surface elevations and the Du Pont grid coordinates were measured by Vernon Surveying Company, Marietta, Ohio.

Ground water level elevations in 1991 were similar to those in 1990 (Tables A-1 and A-3). Ground water levels along the Ohio River were slightly higher as a result of high precipitation in 1991. The Ohio River water level stage on 12/12/91 measured 582.2 feet msl as compared to the mean of 582 feet msl. Ground water level elevations around the Du Pont-Lubeck Wellfield rose significantly in December because the wellfield had been shut down during the period from November 13, 1991 through December 26, 1991, during ownership transition from the Lubeck Public Water System to Du Pont's Washington Works Plant. Water level elevations in the Du Pont-Lubeck wells were not measured at this time. The water level elevations presented in Table A-1 represent average historic water levels observed during average pumping of 500 gpm. Du Pont will be pumping at a rate of 600 to 700 gpm. Therefore, the drawdowns and the cone of influence from these wells will be greater than what has been historically observed (see Figure 13).

In 1991, ground water level depths on the plant site ranged from about 12 feet to 70 feet below ground surface. The ground water is shallow (about 12 to 33 feet deep) along the riverbank where it is recharged directly from the Ohio River. Depths to ground water increase significantly to the south (about 60 to 70 feet deep) away from the riverbank. Ground water elevations are highest along the riverbank (at about 581 ft. msl), decreasing to about 552 ft. msl at the easternmost well in the East Well Field, to about 560 ft. msl at the Du Pont-Lubeck Wellfield. The general lateral hydraulic gradient across the plant site is about 0.004 ft/ft to the southwest. Much steeper gradients occur around the production water wells.

ASH004941

Local Landfill

Ground water levels at the Local Landfill vary significantly as a result of the topography and resultant drainages, extensive underlying shale, and limited saturated thicknesses of the surficial erosional soils and underlying sandstone zones. Ground water depths at the Local Landfill ranged from about 3 feet below ground surface in the upper erosional soils in an eastern drainage basin, to about 130 feet in the central part of the landfill. Ground water level elevations ranged from +625.28 ft. msl in the southwest corner of the landfill in the shallow weathered material, to +724.31 ft. msl in the sandstone zone in the south-central part of the landfill.

HISTORIC AQUIFER TEST DATA

Plant Site

Specific capacity data from Washington Works seven East Field Production wells and two of the Du Pont-Lubeck wells were used to estimate transmissivity for the upper principal aquifer which underlies the Washington Works plant site. These results are presented in Table A-4. The analytical technique used to compute these estimates is presented by Driscoll (1986), and assumes that for a water table aquifer, the transmissivity is approximately equal to 1500 times the specific capacity.

The computed transmissivity values for the aquifer at the East Well Field range from about 17,000 gpd/ft to 50,000 gpd/ft; and the transmissivity for the aquifer at the Du Pont-Lubeck Well Field is about 120,000 gpd/ft. Based on a saturated thickness of about 40 feet, the hydraulic conductivity of the principal aquifer on the plant site ranges from about 60 ft/day (2*10-2 cm/sec) to about 400 ft/day (1*10-1 cm/sec). The higher transmissivities and hydraulic conductivities probably occur in areas of cleaner gravel deposits.

Local Landfill

Permeability testing was conducted by the firm of Tetra Tech Richardson, Inc. (October, 1989). Packer testing was conducted on LLMW 4 from a depth of 40 feet to 136 feet. The results are detailed in their October, 1989 report, and indicate that the average permeability for the shales and sandstone units is around 10-5 cm/sec. Higher permeabilities of 10-4 cm/sec observed in the shale and siltstone may be due to secondary permeability from fracturing. Lower permeabilities of 10-6 cm/sec in the sandstone may be due to increased shale and clay. The low yields of the monitor wells at the Local Landfill verify that the underlying saturated zones yield very little water.

ASH004942

Table A-1

Observation and Production Well
Groundwater Level Elevations and Sample Site Coordinates

New Temporary Wells

Well ID	Measuring Pt.[1] Elevation (MSL, Ft.)	Ground Surface Elevation (MSL, Ft.)	Depth to Water (Ft.)	Groundwater Elevation (MSL, Ft.)[2]	Screened Interval (Ft. Below LSD)	DuPont Grid Coordinates North	DuPont Grid Coordinates East
RBLMW-1	595.67	593.00	23.27	572.40	25-35	5,080.99	3,704.87
RBLMW-2	632.42	630.35	66.47	565.95	63.6-73.6	4,747.15	3,645.43
RBLMW-3	633.12	630.86	67.08	566.04	63.5-73.5	4,936.08	4,306.52
RBLMW-4	593.01	590.20	11.96	581.05	21-31	5,158.24	4,188.32
RBLMW-5	633.55	631.10	68.60	564.95	64.2-74.2	4,967.14	4,909.79
RBLMW-6	595.52	593.00	30.20	565.32	27.2-37.2	5,161.28	4,979.15
RBLMW-7	597.17	594.40	31.12	566.05	28.8-38.8	5,176.69	5,769.56
RBLMW-8	631.77	630.00	70.28	561.49	68.9-78.9	4,963.48	5,513.75
RBLMW-9	631.29	630.00	61.24	570.05	59.2-69.2	4,894.05	6,657.24
RBLMW-10	600.88	598.90	23.70	577.28	27-37	5,097.68	6,677.15
RBLMW-11	602.18	599.50	30.47	571.71	24.2-34.2	4,980.22	7,313.67
RBLMW-12	636.16	633.80	64.38	571.78	59.2-69.2	4,754.14	7,892.27
ADPMW-1	599.10	596.50	32.69	566.41	25-35	5,050.28	4,323.82
ADPMW-2	599.08	596.40	32.76	566.32	25-35	5,073.09	4,506.47
ADPMW-3	596.67	595.10	30.77	565.90	26.4-36.4	5,095.10	4,739.35
BGMW-1	630.38	629.00	60.44	569.94[3]	58.3-68.3	4,803.60	6,668.60
BGMW-2	632.49	630.10	64.08	568.41[3]	59.5-69.5	4,640.52	6,253.02
BGMW-3	629.15	627.20	59.60	569.55[3]	58-68	4,260.28	6,738.41
BGMW-4	630.62	628.60	60.92	569.70[3]	58.8-68.8	4,409.90	6,721.97
BGMW-5	634.63	632.10	63.89	570.74	58.9-68.9	4,737.89	6,965.10
BGMW-6	634.92	632.60	64.32	570.60	59.6-69.6	4,628.37	6,964.71
BGMW-7	631.97	630.30	61.68	570.29	59-69	4,436.06	6,935.95

[1] Top of PVC Casing

[2] Measured on 12/12/91, except where noted.

[3] Measured on 12/13/91.

ASH004943

Table A-1 (Cont'd)

Local Landfill

Well ID	Measuring Pt.[1] Elevation (MSL, Ft.)	Depth to Water (Ft.)	Screened Interval (Ft. Below LSD)	Groundwater Elevation (MSL, Ft.)	Date [2] Measured	DuPont Grid Coordinates North	East
LLMW-1	687.36	30.76	14-34	658.60	11/15/91	3,173.95	8423.00
LLMW-2	656.41	5.10	5-23	651.31	11/18/91	2,143.91	8,298.40
LLMW-3	682.38	7.88	5-20	674.50	11/18/91	1,993.50	7,942.50
LLMW-4	847.15	132.16	127.5-147.5	714.99	11/18/91	2,732.10	7,046.20
LLMW-5	673.91	24.34	16-36	649.57	11/14/91	2,608.10	6,028.10
LLMW-6	796.08	76.50	70-90	719.58	11/15/91	1,822.50	5,327.60
LLMW-7	654.46	29.18	9-29	625.28	11/14/91	1,875.90	4,797.30
LLMW-8	846.78	122.47	122-142	724.31	01/15/92	1,641.10	7,065.20

[1] Top of PVC Casing

[2] Date Measured as Indicated.

ASH004944

Table A-1 (Cont'd)

Observation and Production Well Groundwater Level Elevations

Lubeck Wells

Well ID	Elevation Top of Concrete Motor Base MSL, Ft.	Average* Depth of Water Pumping Ft.	Average Water Level Elevation MSL, Ft.	DuPont Grid Coordinates North	East
L1	633.93	73	560.93	2410.14	3499.35
L2	634.92	73	561.92	2344.61	3373.02
L3	634.20	75	559.2	2175.57	3219.49
L4	623.24	62.5	559.24	2655.96	3268.34
L5	624.78	64	560.78	2558.91	3093.27

* Based on historic water level data obtained from Lubeck Water Co. based on an average pumping rate of about 500 gpm.

ASH004945

Table A-1 (Cont'd)

Observation and Production Well Groundwater Level Elevations

Existing Wells

Well ID	Measuring Pt.[1] Elevation (MSL, Ft.)	Depth to Water (Ft.)	Groundwater Elevation (MSL, Ft.)[2]	Du Pont Grid Coordinates North	East
337	628.04	75.84	552.20	3230.40	11,508.58
335	630.69	75.82	554.87	3335.18	11,179.95
TW-39	635.23	67.32	567.91	3400.68	11,199.94
334	633.49	73.22	560.27	3618.20	10,740.09
333	634.37	76.90	557.47	3880.01	10,257.02
TW-38	635.27	68.02	567.25	3999.89	9,999.80
332	634.36	79.31	555.05	4126.32	9769.96
TW-46	635.19	Removed and plugged		4199.68	9494.99
TW-48	636.02	69.34	566.68	4304.31	9389.32
331	632.91	77.23	555.68	4339.43	9353.08
TW-26	632.89	64.98	567.91	4197.90	9213.73
336	634.26	78.04	556.22	4531.18	8830.33
TW-41	635.09	63.94	571.15	4637.56	8399.96
TW-M1	631.61	62.10	569.51	3964.61	8771.72
TW-M2	632.02	61.47	570.55	3960.28	8302.88
TW-22	632.49	63.69	568.80	4404.94	6387.99
TW-E6	635.22	64.63	570.59	4889.80	6839.06
TW-40	632.87	61.45	571.42	4500.15	7654.62
TW-N2	592.44	30.99	561.45	5203.26	5378.75
TW-1	588.98	7.00	581.98	5202.73	4424.75
TW-32	594.48	23.82	570.66	5110.09	3820.05
TW-E4	630.05	Destroyed		4961.39	5872.86
TW-E5	631.16	63.13	568.03	4911.63	6124.42
TW-P12	631.17	71.05	560.12	4971.78	5382.80
TW-W1	632.11	69.40	562.71	4973.21	5282.90
W -3	628.50	62.53	565.97	4121.47	5473.54
TW-21	630.35	Abandoned		4405.22	4595.15
TW-33	630.63	64.63	566.00	4724.19	4204.33
TW-W20	630.21	64.40	565.81	4277.23	3168.7
TW-25	638.23	66.73*	571.50*	2599.73	5282.77
TW-24	632.69	71.64	561.05	3203.60	5101.10
TW-27	635.82	71.92	563.90	2365.87	3588.19
TW-M4	627.34	62.61	564.73	3132.82	3312.85
TW-23	631.40	67.65	563.75	3978.22	2559.06
TW-M5	600.67	34.04	566.63	4392.08	1802.30
TW-M6	601.14	34.12	567.02	4666.68	2333.32
TW-M3	610.23	43.86	566.37	4494.28	2899.79

[1] Top of PVC Casing
[2] Measured on 12/12/91
[*] Data suspect. See historic data and Figure 13.

ASH004946

Table A-2

Leachate and Upgradient Soil Sample Coordinates

DuPont Grid Coordinates

Site Designation	DuPont Grid Coordinates North	East
RBLL-1	5,006.65	3,774.46
RBLL-2	5,069.45	6,400.31
UGS-1	4,091.57	2,625.24
UGS-2	4,444.17	9,135.80
UGS-3	3,200.00	11,565.00
UGS-4	4,035.00	2,542.00
UGS-564	off-site	off-site
LLL-1	1,137.94	5,320.23
LLL-2	2,724.08	6,184.01
LLL-3	2,144.44	8,304.74
LLS-1	1,190.00	5,320.00
LLS-2	2,665.00	6,184.00
LLS-3	2,000.00	8,305.00
LLS-4	1,950.00	5,240.00
LLS-5	2520.00	9,142.00
LLP-1	1,434.77	7,648.18
LLP-2	1,748.53	7,847.69
LLP-3	2,089.16	8,097.42
PWIS1	4,003.01	3,413.18
PWIS2	4,287.09	3,508.12

Note: UGS-564 located off-site about 2.5 miles east of Washington Works at private residence.

ASH004947

TABLE A-3

1990 OBSERVATION AND PRODUCTION WELL WATER LEVEL ELEVATIONS (FT.MSL)

WELL NAME	MEASURING PT. ELEV.	WATER LEVEL DEPTH/ELEV. (10/90)
TW-1	588.98	7.85/581.13
TW-32	594.48	27.85/566.63
TW-E4	630.05	N/A/N/A
TW-P12	631.17	71.66/559.51
TW-W1	632.11	71.65/560.46
TW-3	628.50	63.50/565.00
TW-21	630.35	N/A/N/A
TW-33	630.63	65.75/564.88
TW-20	630.21	65.65/564.56
TW-61	N/A	88.98/N/A
TW-25	638.23	73.07/565.15
TW-24	632.69	68.13/564.56
TW-27	635.82	75.04/560.78
TW-M4	627.34	64.71/562.63
TW-23	631.40	67.16/564.24
TW-M5	600.67	34.32/566.35
TW-M6	601.14	34.65/566.49
TW-M3	610.23	44.96565.27

ASH004948

TABLE A-3 (CONT'D)

1990 OBSERVATION AND PRODUCTION WELL WATER LEVEL ELEVATIONS (FT.MSL)

WELL NAME	MEASURING PT. ELEV.	WATER LEVEL DEPTH/ELEV. (10/90)
337	628.04	68.95/559.09
335	630.69	71.95/558.74
TW-39	635.23	66.79/568.44
334	633.49	82.90/550.59
333	634.37	84.79/549.58
TW-38	635.27	68.29/566.98
332	634.36	90.00/544.36
TW-46	635.19	12.24/622.95
TW-48	636.02	69.68/566.34
331	632.91	75.92/556.99
TW-26	632.89	65.41/567.48
336	634.26	77.91/556.35
TW-41	635.09	64.26/570.83
TW-M1	631.61	62.60/569.01
TW-M2	632.02	61.97/570.05
TW-22	632.49	64.36/568.13
TW-E6	635.22	64.99/570.23
TW-40	632.87	62.10/570.77
TW-N2	592.44	32.13/560.31

ASH004949

TABLE A-3 (CONT'D)

1990 OBSERVATION AND PRODUCTION WELL WATER LEVEL ELEVATIONS (FT.MSL)

WELL NAME	MEASURING PT. ELEV.	WATER LEVEL DEPTH/ELEV. (10/90
LOCAL LANDFILL		
LLMW-1	689.36	27.8/ 661.56
LLMW-2	656.41	5.6/ 650.81
LLMW-3	682.38	6.9/ 675.48
LLMW-4	847.15	132.6/714.55
LLMW-5	673.91	17.5/ 656.41
LLMW-6	796.08	75.8/ 720.28
LLMW-7	654.46	24.1/ 630.36

ASH004950

Table A-4

Specific Capacity Data for the East Field and Lubeck Water Production Wells (August 1990)

Well Name	Yield (gpm)	Drawdown (Ft)	Specific Capacity (gpm/Ft) (1)	Transmissivity (2) (gpd/Ft)	Time (min)	Static Water Level (Ft)	Pumping Water Level (Ft)
Eastfield Wells							
331	130	11.53	11.4	17,100	120	63.07	74.60
332	150	5.71	27.2	40,800	120	65.99	71.70
	250	10.46	23.9	35,900	120		76.45
	302	13.21	22.9	34,400	120		79.20
333	130	12.25	10.7	16,100	120	66.65	78.90
334	150	12.68	11.8	17,700	120	65.67	78.35
335	150	6.06	24.8	37,200	120	62.24	68.30
	250	10.01	25.0	37,500	120		72.25
	350	10.51	33.3	50,000	120		72.75
336	93	19.16	4.9 (3)	--	120	62.84	82.00
337	150	6.35	23.6	35,400	120	57.05	63.40
	250	11.05	22.6	33,900	120		68.10
	350	13.45	26.0	39,000	120		70.50
Lubeck							
Lubeck #2	213	2.50	85.2	127,800	--	72.75	75.25
Lubeck #3	236	3.08	76.6	114,900	--	73.25	76.33

(1) Rounded off
(2) Based on transmissivity estimate from specific capacity data, T = 1,500 Q/s (Driscoll 1986, p. 1021)
(3) Likely due to high well loss
-- No Value

ASH004951

2019 Routine Monitoring and Corrective Measures Assessment Program Report

Chemours Washington Works Plant
Washington, West Virginia

Submitted on behalf of:
The Chemours Company

Submitted by:
AECOM
Sabre Building
Suite 300
4051 Ogletown Road
Newark, DE 19713

Project Number: 60593796
Date: April 2020

Table 5-1
Potentiometric Measurements
2019 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works
Washington, West Virginia

Well ID	Aquifer Monitored	Measuring Point Elevation (Ft)	Depth to Groundwater Measurements			
			1Q2019	2Q2019	3Q2019	4Q2019
AA05-MW01	alluvial aquifer	633.32	58.12	58.39	57.99	57.32
AB07-MW02	alluvial aquifer	633.02	57.48	58.03	57.45	57.81
AE11-MW01	alluvial aquifer	628.94	52.32	53.06	52.77	53.08
AJ06-MW01	alluvial aquifer	635.09	59.04	59.51	58.90	59.70
AJ06-MW02	bedrock aquifer	635.55	59.60	60.08	59.08	59.77
AL10-MW01	alluvial aquifer	631.61	57.09	57.10	55.85	56.81
AM07-PW01	alluvial aquifer	634.53	59.71	60.34	77.59	78.44
AO08-MW01	alluvial aquifer	636.02	63.74	63.93	60.94	64.08
AO08-PW01	alluvial aquifer	633.11	67.98	69.15	58.34	69.78
AQ09-MW01	alluvial aquifer	632.89	58.71	59.04	56.97	58.86
AQ09-PW01	alluvial aquifer	634.46	70.93	72.46	69.96	74.46
AR09-MW01	alluvial aquifer	635.27	62.08	61.52	61.02	64.07
AT10-PW01	alluvial aquifer	634.53	69.41	60.15	66.52	70.91
AV11-PW01	alluvial aquifer	633.58	74.14	74.66	69.03	72.67
AX12-MW01	alluvial aquifer	635.23	57.67	57.80	57.68	63.19
AX13-PW01	alluvial aquifer	630.85	54.79	55.07	-	59.77
AZ13-PW01	alluvial aquifer	628.25	60.99	64.34	57.32	62.57
D08-MW01	alluvial aquifer	600.67	18.45	18.78	19.88	20.33
E13-MW01	alluvial aquifer	625.47	43.22	43.62	44.78	45.23
F06-MW01	alluvial aquifer	601.14	19.64	19.94	21.02	21.95
G10-MW01	alluvial aquifer	631.40	54.90	55.12	56.14	56.49
G17-MW01	alluvial aquifer	632.81	48.34	48.65	49.41	49.94
J08-MW01	alluvial aquifer	630.21	46.54	50.40	51.49	51.98
K14-MW01	alluvial aquifer	627.34	47.06	47.23	48.22	48.53
K16-PW01	alluvial aquifer	621.74 *	43.76	43.96	44.84	45.27
K18-PW01	alluvial aquifer	634.92	-	-	-	-
K19-PW01	alluvial aquifer	634.20	-	-	-	-
L04-PW01	alluvial aquifer	589.75	-	-	-	-
L06-MW01**	alluvial aquifer	629.33	49.54	49.92	51.06	51.68
M16-MW01	alluvial aquifer	627.14	47.64	47.80	48.77	48.97
N05-MW01	alluvial aquifer	633.17	54.22	54.59	55.49	56.26
N13-MW01	alluvial aquifer	625.87	46.86	47.30	47.92	48.25
P06-MW02	alluvial aquifer	630.82	53.32	53.75	54.31	54.98
P08-MW01	alluvial aquifer	629.29	49.79	50.20	52.87	53.23
R04-MW02	perched water table	594.92	15.34	15.36	Dry	13.78
S05-MW02	alluvial aquifer	630.64	56.81	56.96	56.75	61.07
T13-MW01	alluvial aquifer	632.69	53.28	55.18	55.89	53.22
U04-MW01	perched water table	595.43	10.94	12.65	15.72	10.85
U16-MW01	alluvial aquifer	638.23	59.10	59.48	60.14	60.29
V09-MW01	alluvial aquifer	628.50	53.40	53.82	53.82	54.09
Y05-MW01	perched water table	631.16	57.36	57.56	57.19	57.45
Y14-MW01	alluvial aquifer	642.25	65.10	65.61	65.98	66.08
Y14-MW02	bedrock aquifer	643.12	68.68	69.05	66.04	69.57
Z07-MW01	alluvial aquifer	632.98	58.12	58.54	58.22	56.51

* for K16-PW01: 621.74 = top of concrete floor. 623.24 = elevation of top of concrete pump base.
** This well can only be measured if the teflon process area is not in operation due to safety concerns.
" - ": not measured: inaccesible due to well pumps/pipes (for PWs); AX13-PW01 was out of service in 3Q.

Table 5-2
Groundwater Elevation Data
2019 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works
Washington, West Virginia

Well ID	Aquifer Monitored	Measuring Point Elevation (Ft)	Groundwater Elevation (ft MSL)			
			1Q2019	2Q2019	3Q2019	4Q2019
AA05-MW01	alluvial aquifer	633.32	575.20	574.93	575.33	576.00
AB07-MW02	alluvial aquifer	633.02	575.54	574.99	575.57	575.21
AE11-MW01	alluvial aquifer	628.94	576.62	575.88	576.17	575.86
AJ06-MW01	alluvial aquifer	635.09	576.05	575.58	576.19	575.39
AJ06-MW02	alluvial aquifer	635.55	575.95	575.47	576.47	575.78
AL10-MW01	alluvial aquifer	631.61	574.52	574.51	575.76	574.80
AM07-PW01	alluvial aquifer	634.53	574.82	574.19	556.94	556.09
AO08-MW01	alluvial aquifer	636.02	572.28	572.09	575.08	571.94
AO08-PW01	alluvial aquifer	633.11	565.13	563.96	574.77	563.33
AQ09-MW01	alluvial aquifer	632.89	574.18	573.85	575.92	574.03
AQ09-PW01	alluvial aquifer	634.46	563.53	562.00	564.50	560.00
AR09-MW01	alluvial aquifer	635.27	573.19	573.75	574.25	571.20
AT10-PW01	alluvial aquifer	634.53	565.12	574.38	568.01	563.62
AV11-PW01	alluvial aquifer	633.58	559.44	558.92	564.55	560.91
AX12-MW01	alluvial aquifer	635.23	577.56	577.43	577.55	572.04
AX13-PW01	alluvial aquifer	630.85	576.06	575.78	-	571.08
AZ13-PW01	alluvial aquifer	628.25	567.26	563.91	570.93	565.68
D08-MW01	alluvial aquifer	600.67	582.22	581.89	580.79	580.34
E13-MW01	alluvial aquifer	625.47	582.25	581.85	580.69	580.24
F06-MW01	alluvial aquifer	601.14	581.50	581.20	580.12	579.19
G10-MW01	alluvial aquifer	631.40	576.50	576.28	575.26	574.91
G17-MW01	alluvial aquifer	632.81	584.47	584.16	583.40	582.87
J08-MW01	alluvial aquifer	630.21	583.67	579.81	578.72	578.23
K14-MW01	alluvial aquifer	627.34	580.28	580.11	579.12	578.81
K16-PW01	alluvial aquifer	623.24	579.48	579.28	578.40	577.97
L06-MW01**	alluvial aquifer	629.33	579.79	579.41	578.27	577.65
M16-MW01	alluvial aquifer	627.14	579.50	579.34	578.37	578.17
N05-MW01	alluvial aquifer	633.17	578.95	578.58	577.68	576.91
N13-MW01	alluvial aquifer	625.87	579.01	578.57	577.95	577.62
P06-MW02	alluvial aquifer	630.82	577.50	577.07	576.51	575.84
P08-MW01	alluvial aquifer	629.29	579.50	579.09	576.42	576.06
R04-MW02	perched water table	594.92	579.58	579.56	Dry	581.14
S05-MW02	alluvial aquifer	630.64	573.83	573.68	573.89	569.57
T13-MW01	alluvial aquifer	632.69	579.41	577.51	576.80	579.47
U04-MW01	perched water table	595.43	584.49	582.78	579.71	584.58
U16-MW01	alluvial aquifer	638.23	579.13	578.75	578.09	577.94
V09-MW01	alluvial aquifer	628.50	575.10	574.68	574.68	574.41
Y05-MW01	perched water table	631.16	573.80	573.60	573.97	573.71
Y14-MW01	alluvial aquifer	642.25	577.15	576.64	576.27	576.17
Y14-MW02	alluvial aquifer	643.12	574.44	574.07	577.08	573.55
Z07-MW01	alluvial aquifer	632.98	574.86	574.44	574.76	576.47
RANNEY WELL	alluvial aquifer	unavailable	563	564	565	567

" - ": not measured: inaccesible due to well pumps/pipes (for PWs); AX13-PW01 out of service in 3Q.
Note that measurements from the RANNEY WELL are elevations readings from the plant site operators.

Appendix A

Gaging Data from USGS Station at Parkersburg, West Virginia

Appendix A
Gaging Data from USGS Station at Parkersburg, WV
2019 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works

---------- WARNING ----------
Some of the data that you have obtained from this U.S. Geological Survey database
may not have received Director's approval. Any such data values are qualified
as provisional and are subject to revision. Provisional data are released on the
condition that neither the USGS nor the United States Government may be held liable
for any damages resulting from its use.
Additional info: https://help.waterdata.usgs.gov/policies/provisional-data-statement
File-format description: https://help.waterdata.usgs.gov/faq/about-tab-delimited-output
Automated-retrieval info: https://help.waterdata.usgs.gov/faq/automated-retrievals
#
Contact: gs-w_support_nwisweb@usgs.gov
retrieved: 2020-03-04 18:28:32 EST (vaww02)
#
Data for the following 1 site(s) are contained in this file
USGS 03151000 OHIO RIVER AT PARKERSBURG, WV

#
Data provided for site 03151000
TS parameter statistic Description
159626 00060 00003 Discharge, cubic feet per second (Mean)
159627 00065 00003 Gage height, feet (Mean)
#
Data-value qualification codes included in this output:
#
A Approved for publication -- Processing and review completed.
#

from:
https://waterdata.usgs.gov/nwis/dv?referred_module=sw&site_no=03151000
Ohio River Data from USGS Gage Station at Parkersburg, WV

DESCRIPTION:
Latitude 39°16'05", Longitude 81°33'50" NAD27
Wood County, West Virginia, Hydrologic Unit 05030202
Drainage area: 35,650 square miles
Contributing drainage area: 35,650.00 square miles,
Datum of gage: 560.60 feet above NAVD88.

agency_cd site_no datetime 159627_00065_00003 159627_00065_00003_cd

	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	1/1/2019	24.54	A	585.14
USGS	3151000	1/2/2019	25.77	A	586.37
USGS	3151000	1/3/2019	25.63	A	586.23
USGS	3151000	1/4/2019	24.4	A	585.00
USGS	3151000	1/5/2019	24.29	A	584.89
USGS	3151000	1/6/2019	24.39	A	584.99
USGS	3151000	1/7/2019	23.79	A	584.39
USGS	3151000	1/8/2019	22.96	A	583.56
USGS	3151000	1/9/2019	22.74	A	583.34
USGS	3151000	1/10/2019	22.61	A	583.21
USGS	3151000	1/11/2019	22.84	A	583.44
USGS	3151000	1/12/2019	22.44	A	583.04
USGS	3151000	1/13/2019	22.09	A	582.69
USGS	3151000	1/14/2019	22.13	A	582.73
USGS	3151000	1/15/2019	21.85	A	582.45
USGS	3151000	1/16/2019	21.82	A	582.42
USGS	3151000	1/17/2019	21.87	A	582.47
USGS	3151000	1/18/2019	21.54	A	582.14
USGS	3151000	1/19/2019	21.99	A	582.59
USGS	3151000	1/20/2019	24.81	A	585.41
USGS	3151000	1/21/2019	25.57	A	586.17
USGS	3151000	1/22/2019	23.19	A	583.79
USGS	3151000	1/23/2019	22.61	A	583.21
USGS	3151000	1/24/2019	25.89	A	586.49
USGS	3151000	1/25/2019	29.55	A	590.15
USGS	3151000	1/26/2019	28.89	A	589.49
USGS	3151000	1/27/2019	26.66	A	587.26
USGS	3151000	1/28/2019	25.54	A	586.14

Appendix A
Gaging Data from USGS Station at Parkersburg, WV
2019 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works

	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	1/29/2019	24.56	A	585.16
USGS	3151000	1/30/2019	24.08	A	584.68
USGS	3151000	1/31/2019	22.91	A	583.51
USGS	3151000	2/1/2019	22.87	A	583.47
USGS	3151000	2/2/2019	22.45	A	583.05
USGS	3151000	2/3/2019	22.51	A	583.11
USGS	3151000	2/4/2019	22.43	A	583.03
USGS	3151000	2/5/2019	22.2	A	582.80
USGS	3151000	2/6/2019	24.25	A	584.85
USGS	3151000	2/7/2019	28.34	A	588.94
USGS	3151000	2/8/2019	32.52	A	593.12
USGS	3151000	2/9/2019	33.9	A	594.50
USGS	3151000	2/10/2019	31.37	A	591.97
USGS	3151000	2/11/2019	26.98	A	587.58
USGS	3151000	2/12/2019	28.55	A	589.15
USGS	3151000	2/13/2019	31.51	A	592.11
USGS	3151000	2/14/2019	31.39	A	591.99
USGS	3151000	2/15/2019	27.98	A	588.58
USGS	3151000	2/16/2019	26.74	A	587.34
USGS	3151000	2/17/2019	26.35	A	586.95
USGS	3151000	2/18/2019	25.73	A	586.33
USGS	3151000	2/19/2019	25.16	A	585.76
USGS	3151000	2/20/2019	25.38	A	585.98
USGS	3151000	2/21/2019	27.81	A	588.41
USGS	3151000	2/22/2019	27.91	A	588.51
USGS	3151000	2/23/2019	26.69	A	587.29
USGS	3151000	2/24/2019	26.55	A	587.15
USGS	3151000	2/25/2019	26.64	A	587.24
USGS	3151000	2/26/2019	26.35	A	586.95
USGS	3151000	2/27/2019	24.76	A	585.36
USGS	3151000	2/28/2019	23.81	A	584.41
USGS	3151000	3/1/2019	23.25	A	583.85
USGS	3151000	3/2/2019	23.27	A	583.87
USGS	3151000	3/3/2019	22.71	A	583.31
USGS	3151000	3/4/2019	22.68	A	583.28
USGS	3151000	3/5/2019	22.45	A	583.05
USGS	3151000	3/6/2019	21.92	A	582.52
USGS	3151000	3/7/2019	22.14	A	582.74
USGS	3151000	3/8/2019	21.71	A	582.31
USGS	3151000	3/9/2019	21.92	A	582.52
USGS	3151000	3/10/2019	22.83	A	583.43
USGS	3151000	3/11/2019	23.93	A	584.53
USGS	3151000	3/12/2019	24.01	A	584.61
USGS	3151000	3/13/2019	23.67	A	584.27
USGS	3151000	3/14/2019	22.86	A	583.46
USGS	3151000	3/15/2019	22.93	A	583.53
USGS	3151000	3/16/2019	23.58	A	584.18
USGS	3151000	3/17/2019	23.49	A	584.09
USGS	3151000	3/18/2019	22.85	A	583.45
USGS	3151000	3/19/2019	22.36	A	582.96
USGS	3151000	3/20/2019	22.14	A	582.74
USGS	3151000	3/21/2019	21.82	A	582.42
USGS	3151000	3/22/2019	21.8	A	582.40
USGS	3151000	3/23/2019	21.75	A	582.35
USGS	3151000	3/24/2019	21.6	A	582.20

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	3/25/2019	21.79	A	582.39
USGS	3151000	3/26/2019	21.7	A	582.30
USGS	3151000	3/27/2019	21.71	A	582.31
USGS	3151000	3/28/2019	21.53	A	582.13
USGS	3151000	3/29/2019	21.24	A	581.84
USGS	3151000	3/30/2019	21.66	A	582.26
USGS	3151000	3/31/2019	21.68	A	582.28
USGS	3151000	4/1/2019	22.84	A	583.44
USGS	3151000	4/2/2019	22.75	A	583.35
USGS	3151000	4/3/2019	22.56	A	583.16
USGS	3151000	4/4/2019	22.45	A	583.05
USGS	3151000	4/5/2019	22.3	A	582.90
USGS	3151000	4/6/2019	21.69	A	582.29
USGS	3151000	4/7/2019	21.71	A	582.31
USGS	3151000	4/8/2019	21.7	A	582.30
USGS	3151000	4/9/2019	21.56	A	582.16
USGS	3151000	4/10/2019	21.94	A	582.54
USGS	3151000	4/11/2019	21.56	A	582.16
USGS	3151000	4/12/2019	21.57	A	582.17
USGS	3151000	4/13/2019	21.59	A	582.19
USGS	3151000	4/14/2019	21.85	A	582.45
USGS	3151000	4/15/2019	22.86	A	583.46
USGS	3151000	4/16/2019	25.01	A	585.61
USGS	3151000	4/17/2019	24.97	A	585.57
USGS	3151000	4/18/2019	23.51	A	584.11
USGS	3151000	4/19/2019	23.37	A	583.97
USGS	3151000	4/20/2019			-
USGS	3151000	4/21/2019			-
USGS	3151000	4/22/2019	24.41	A	585.01
USGS	3151000	4/23/2019			-
USGS	3151000	4/24/2019	23.04	A	583.64
USGS	3151000	4/25/2019	22.63	A	583.23
USGS	3151000	4/26/2019	23.1	A	583.70
USGS	3151000	4/27/2019	25.54	A	586.14
USGS	3151000	4/28/2019	25.35	A	585.95
USGS	3151000	4/29/2019	24.37	A	584.97
USGS	3151000	4/30/2019	23.81	A	584.41
USGS	3151000	5/1/2019	23.21	A	583.81
USGS	3151000	5/2/2019	22.81	A	583.41
USGS	3151000	5/3/2019	22.76	A	583.36
USGS	3151000	5/4/2019	22.61	A	583.21
USGS	3151000	5/5/2019			-
USGS	3151000	5/6/2019	23.07	A	583.67
USGS	3151000	5/7/2019	23.03	A	583.63
USGS	3151000	5/8/2019	22.4	A	583.00
USGS	3151000	5/9/2019	22.18	A	582.78
USGS	3151000	5/10/2019	22.13	A	582.73
USGS	3151000	5/11/2019			-
USGS	3151000	5/12/2019			-
USGS	3151000	5/13/2019	23.85	A	584.45
USGS	3151000	5/14/2019	24.71	A	585.31
USGS	3151000	5/15/2019	24.13	A	584.73
USGS	3151000	5/16/2019			-
USGS	3151000	5/17/2019	23.26	A	583.86
USGS	3151000	5/18/2019	22.87	A	583.47

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	5/19/2019	22.71	A	583.31
USGS	3151000	5/20/2019	22.2	A	582.80
USGS	3151000	5/21/2019	22.22	A	582.82
USGS	3151000	5/22/2019	21.65	A	582.25
USGS	3151000	5/23/2019	21.92	A	582.52
USGS	3151000	5/24/2019	21.46	A	582.06
USGS	3151000	5/25/2019	21.45	A	582.05
USGS	3151000	5/26/2019	21.51	A	582.11
USGS	3151000	5/27/2019	21.77	A	582.37
USGS	3151000	5/28/2019	21.9	A	582.50
USGS	3151000	5/29/2019	22.5	A	583.10
USGS	3151000	5/30/2019			-
USGS	3151000	5/31/2019			-
USGS	3151000	6/1/2019	23.48	A	584.08
USGS	3151000	6/2/2019	22.78	A	583.38
USGS	3151000	6/3/2019	23.57	A	584.17
USGS	3151000	6/4/2019			-
USGS	3151000	6/5/2019	22.54	A	583.14
USGS	3151000	6/6/2019	22.4	A	583.00
USGS	3151000	6/7/2019			-
USGS	3151000	6/8/2019			-
USGS	3151000	6/9/2019			-
USGS	3151000	6/10/2019	21.86	A	582.46
USGS	3151000	6/11/2019			-
USGS	3151000	6/12/2019			-
USGS	3151000	6/13/2019			-
USGS	3151000	6/14/2019	21.94	A	582.54
USGS	3151000	6/15/2019	21.83	A	582.43
USGS	3151000	6/16/2019	21.62	A	582.22
USGS	3151000	6/17/2019	22.29	A	582.89
USGS	3151000	6/18/2019	24.23	A	584.83
USGS	3151000	6/19/2019			-
USGS	3151000	6/20/2019			-
USGS	3151000	6/21/2019			-
USGS	3151000	6/22/2019	26.53	A	587.13
USGS	3151000	6/23/2019			-
USGS	3151000	6/24/2019			-
USGS	3151000	6/25/2019			-
USGS	3151000	6/26/2019	24.53	A	585.13
USGS	3151000	6/27/2019	23.71	A	584.31
USGS	3151000	6/28/2019			-
USGS	3151000	6/29/2019			-
USGS	3151000	6/30/2019			-
USGS	3151000	7/1/2019			-
USGS	3151000	7/2/2019			-
USGS	3151000	7/3/2019			-
USGS	3151000	7/4/2019	22.18	A	582.78
USGS	3151000	7/5/2019	21.78	A	582.38
USGS	3151000	7/6/2019	21.94	A	582.54
USGS	3151000	7/7/2019			-
USGS	3151000	7/8/2019			-
USGS	3151000	7/9/2019	22.32	A	582.92
USGS	3151000	7/10/2019	22.18	A	582.78
USGS	3151000	7/11/2019	22.34	A	582.94
USGS	3151000	7/12/2019	23.87	A	584.47

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	7/13/2019	22.82	A	583.42
USGS	3151000	7/14/2019	21.8	A	582.40
USGS	3151000	7/15/2019	21.52	A	582.12
USGS	3151000	7/16/2019	21.8	A	582.40
USGS	3151000	7/17/2019	21.87	A	582.47
USGS	3151000	7/18/2019	21.98	A	582.58
USGS	3151000	7/19/2019	22	A	582.60
USGS	3151000	7/20/2019	21.68	A	582.28
USGS	3151000	7/21/2019	22.1	A	582.70
USGS	3151000	7/22/2019	22.39	A	582.99
USGS	3151000	7/23/2019	23.19	A	583.79
USGS	3151000	7/24/2019	22.85	A	583.45
USGS	3151000	7/25/2019	22.1	A	582.70
USGS	3151000	7/26/2019	21.83	A	582.43
USGS	3151000	7/27/2019	21.42	A	582.02
USGS	3151000	7/28/2019	21.56	A	582.16
USGS	3151000	7/29/2019	21.37	A	581.97
USGS	3151000	7/30/2019	21.53	A	582.13
USGS	3151000	7/31/2019	21.53	A	582.13
USGS	3151000	8/1/2019	21.63	A	582.23
USGS	3151000	8/2/2019	21.42	A	582.02
USGS	3151000	8/3/2019	21.39	A	581.99
USGS	3151000	8/4/2019	21.47	A	582.07
USGS	3151000	8/5/2019	21.3	A	581.90
USGS	3151000	8/6/2019	21.49	A	582.09
USGS	3151000	8/7/2019	21.7	A	582.30
USGS	3151000	8/8/2019	21.43	A	582.03
USGS	3151000	8/9/2019	21.52	A	582.12
USGS	3151000	8/10/2019	21.5	A	582.10
USGS	3151000	8/11/2019	21.29	A	581.89
USGS	3151000	8/12/2019	21.33	A	581.93
USGS	3151000	8/13/2019	21.39	A	581.99
USGS	3151000	8/14/2019	21.18	A	581.78
USGS	3151000	8/15/2019	21.59	A	582.19
USGS	3151000	8/16/2019	21.61	A	582.21
USGS	3151000	8/17/2019	21.37	A	581.97
USGS	3151000	8/18/2019	21.29	A	581.89
USGS	3151000	8/19/2019	21.45	A	582.05
USGS	3151000	8/20/2019	21.73	A	582.33
USGS	3151000	8/21/2019	21.55	A	582.15
USGS	3151000	8/22/2019	21.68	A	582.28
USGS	3151000	8/23/2019	21.48	A	582.08
USGS	3151000	8/24/2019	21.48	A	582.08
USGS	3151000	8/25/2019	21.39	A	581.99
USGS	3151000	8/26/2019	21.43	A	582.03
USGS	3151000	8/27/2019	21.58	A	582.18
USGS	3151000	8/28/2019	21.2	A	581.80
USGS	3151000	8/29/2019	21.73	A	582.33
USGS	3151000	8/30/2019	21.46	A	582.06
USGS	3151000	8/31/2019	21.2	A	581.80
USGS	3151000	9/1/2019	21.16	A	581.76
USGS	3151000	9/2/2019	21.89	A	582.49
USGS	3151000	9/3/2019	21.62	A	582.22
USGS	3151000	9/4/2019	21.48	A	582.08
USGS	3151000	9/5/2019	21.31	A	581.91

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	9/6/2019	21.37	A	581.97
USGS	3151000	9/7/2019	21.55	A	582.15
USGS	3151000	9/8/2019	21.53	A	582.13
USGS	3151000	9/9/2019	21.65	A	582.25
USGS	3151000	9/10/2019	21.57	A	582.17
USGS	3151000	9/11/2019	21.53	A	582.13
USGS	3151000	9/12/2019	21.8	A	582.40
USGS	3151000	9/13/2019	21.65	A	582.25
USGS	3151000	9/14/2019	21.5	A	582.10
USGS	3151000	9/15/2019	21.54	A	582.14
USGS	3151000	9/16/2019	21.55	A	582.15
USGS	3151000	9/17/2019	21.49	A	582.09
USGS	3151000	9/18/2019	21.53	A	582.13
USGS	3151000	9/19/2019	21.36	A	581.96
USGS	3151000	9/20/2019	21.39	A	581.99
USGS	3151000	9/21/2019	21.63	A	582.23
USGS	3151000	9/22/2019	21.44	A	582.04
USGS	3151000	9/23/2019	21.59	A	582.19
USGS	3151000	9/24/2019	21.72	A	582.32
USGS	3151000	9/25/2019	21.3	A	581.90
USGS	3151000	9/26/2019	21.58	A	582.18
USGS	3151000	9/27/2019	21.5	A	582.10
USGS	3151000	9/28/2019	21.55	A	582.15
USGS	3151000	9/29/2019	21.46	A	582.06
USGS	3151000	9/30/2019	21.45	A	582.05
USGS	3151000	10/1/2019	21.58	A	582.18
USGS	3151000	10/2/2019	21.55	A	582.15
USGS	3151000	10/3/2019	21.59	A	582.19
USGS	3151000	10/4/2019	21.71	A	582.31
USGS	3151000	10/5/2019	21.77	A	582.37
USGS	3151000	10/6/2019	21.5	A	582.10
USGS	3151000	10/7/2019	21.85	A	582.45
USGS	3151000	10/8/2019	21.43	A	582.03
USGS	3151000	10/9/2019	21.71	A	582.31
USGS	3151000	10/10/2019	21.34	A	581.94
USGS	3151000	10/11/2019	21.35	A	581.95
USGS	3151000	10/12/2019	21.59	A	582.19
USGS	3151000	10/13/2019	21.79	A	582.39
USGS	3151000	10/14/2019	21.42	A	582.02
USGS	3151000	10/15/2019	21.55	A	582.15
USGS	3151000	10/16/2019	21.71	A	582.31
USGS	3151000	10/17/2019	21.64	A	582.24
USGS	3151000	10/18/2019	21.54	A	582.14
USGS	3151000	10/19/2019	21.56	A	582.16
USGS	3151000	10/20/2019	21.56	A	582.16
USGS	3151000	10/21/2019	21.5	A	582.10
USGS	3151000	10/22/2019	21.74	A	582.34
USGS	3151000	10/23/2019	21.71	A	582.31
USGS	3151000	10/24/2019	21.36	A	581.96
USGS	3151000	10/25/2019	21.32	A	581.92
USGS	3151000	10/26/2019	21.46	A	582.06
USGS	3151000	10/27/2019	21.7	A	582.30
USGS	3151000	10/28/2019	21.74	A	582.34
USGS	3151000	10/29/2019	21.58	A	582.18
USGS	3151000	10/30/2019	21.66	A	582.26

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	10/31/2019	22.01	A	582.61
USGS	3151000	11/1/2019	23.15	A	583.75
USGS	3151000	11/2/2019	23.34	A	583.94
USGS	3151000	11/3/2019	22.48	A	583.08
USGS	3151000	11/4/2019	21.85	A	582.45
USGS	3151000	11/5/2019	21.68	A	582.28
USGS	3151000	11/6/2019	21.86	A	582.46
USGS	3151000	11/7/2019	21.99	A	582.59
USGS	3151000	11/8/2019	21.73	A	582.33
USGS	3151000	11/9/2019	21.66	A	582.26
USGS	3151000	11/10/2019	21.96	A	582.56
USGS	3151000	11/11/2019	21.84	A	582.44
USGS	3151000	11/12/2019	21.87	A	582.47
USGS	3151000	11/13/2019	21.73	A	582.33
USGS	3151000	11/14/2019	21.79	A	582.39
USGS	3151000	11/15/2019	21.81	A	582.41
USGS	3151000	11/16/2019	21.53	A	582.13
USGS	3151000	11/17/2019	21.6	A	582.20
USGS	3151000	11/18/2019	21.65	A	582.25
USGS	3151000	11/19/2019	21.77	A	582.37
USGS	3151000	11/20/2019	21.76	A	582.36
USGS	3151000	11/21/2019	21.5	A	582.10
USGS	3151000	11/22/2019	21.34	A	581.94
USGS	3151000	11/23/2019	21.33	A	581.93
USGS	3151000	11/24/2019	21.72	A	582.32
USGS	3151000	11/25/2019	21.79	A	582.39
USGS	3151000	11/26/2019	21.72	A	582.32
USGS	3151000	11/27/2019	21.78	A	582.38
USGS	3151000	11/28/2019	21.6	A	582.20
USGS	3151000	11/29/2019	21.87	A	582.47
USGS	3151000	11/30/2019	21.7	A	582.30
USGS	3151000	12/1/2019	21.76	A	582.36
USGS	3151000	12/2/2019	21.94	A	582.54
USGS	3151000	12/3/2019	21.79	A	582.39
USGS	3151000	12/4/2019	22.01	A	582.61
USGS	3151000	12/5/2019	21.85	A	582.45
USGS	3151000	12/6/2019	21.89	A	582.49
USGS	3151000	12/7/2019	21.31	A	581.91
USGS	3151000	12/8/2019	21.7	A	582.30
USGS	3151000	12/9/2019	21.97	A	582.57
USGS	3151000	12/10/2019	22.97	A	583.57
USGS	3151000	12/11/2019	24.46	A	585.06
USGS	3151000	12/12/2019	24.87	A	585.47
USGS	3151000	12/13/2019	23.37	A	583.97
USGS	3151000	12/14/2019	23.67	A	584.27
USGS	3151000	12/15/2019	24.4	A	585.00
USGS	3151000	12/16/2019	24.76	A	585.36
USGS	3151000	12/17/2019	27.51	A	588.11
USGS	3151000	12/18/2019	27.96	A	588.56
USGS	3151000	12/19/2019	26.67	A	587.27
USGS	3151000	12/20/2019	23.74	A	584.34
USGS	3151000	12/21/2019	23	A	583.60
USGS	3151000	12/22/2019	22.46	A	583.06
USGS	3151000	12/23/2019	22.08	A	582.68
USGS	3151000	12/24/2019	21.92	A	582.52

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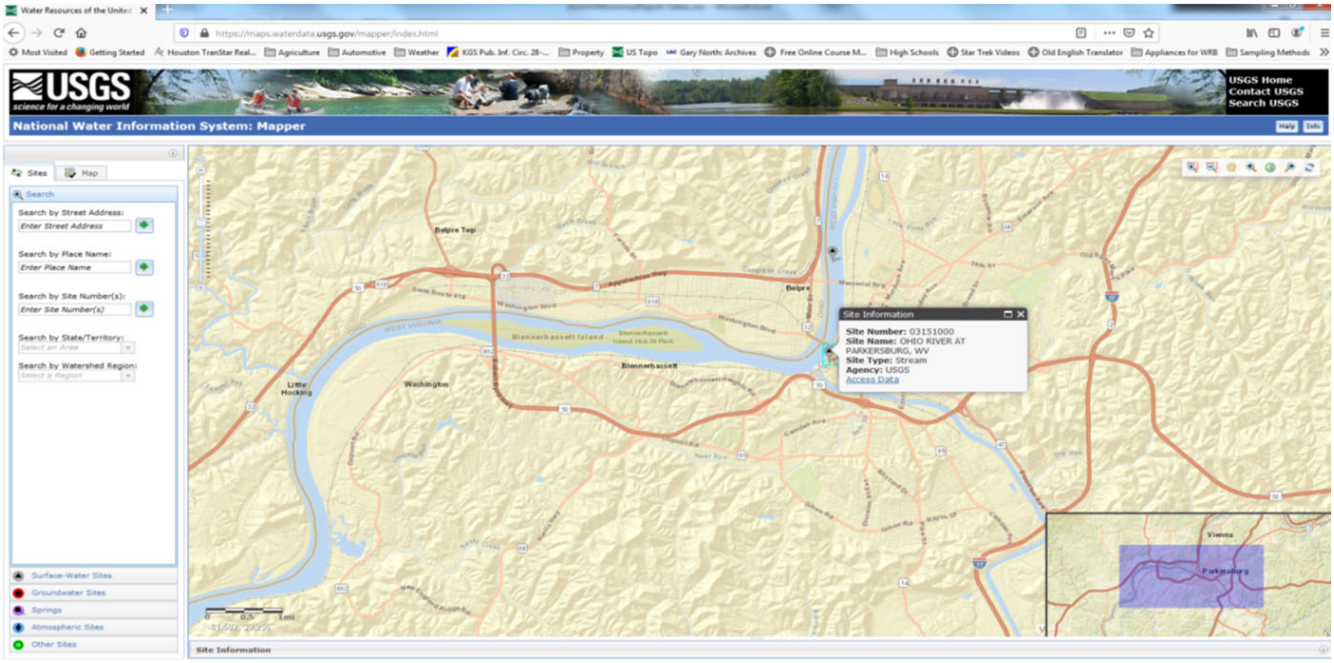
	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	12/25/2019	21.85	A	582.45
USGS	3151000	12/26/2019	21.78	A	582.38
USGS	3151000	12/27/2019	21.78	A	582.38
USGS	3151000	12/28/2019	21.74	A	582.34
USGS	3151000	12/29/2019	21.85	A	582.45
USGS	3151000	12/30/2019	23.18	A	583.78
USGS	3151000	12/31/2019	23.17	A	583.77



2020 Routine Monitoring and Corrective Measures Assessment Report

Chemours Washington Works Plant
Washington, West Virginia

Submitted on behalf of:
The Chemours Company

Submitted by:
AECOM
Sabre Building
Suite 300
4051 Ogletown Road
Newark, DE 19713

Project Number: 60648777
Date: March 2021

Table 5-1
Potentiometric Measurements
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Washington, West Virginia

Well ID	Aquifer Monitored	Measuring Point Elevation (Ft)	Depth to Groundwater Measurements			
			1Q2020	2Q2020	3Q2020	4Q2020
AA05-MW01	alluvial aquifer	633.32	58.43	55.88	55.84	54.20
AB07-MW02	alluvial aquifer	633.02	58.09	55.75	55.52	54.18
AE11-MW01	alluvial aquifer	628.94	53.11	51.38	50.88	50.65
AJ06-MW01	alluvial aquifer	635.09	60.06	57.69	57.35	57.68
AJ06-MW02	bedrock aquifer	635.55	60.82	58.23	57.90	58.23
AL10-MW01	alluvial aquifer	631.61	58.08	54.86	54.81	53.65
AM07-PW01	alluvial aquifer	634.53	77.89	74.89	74.36	73.96
AO08-MW01	alluvial aquifer	636.02	65.70	60.28	60.22	59.73
AO08-PW01	alluvial aquifer	633.11	70.05	57.65	57.62	57.19
AQ09-MW01	alluvial aquifer	632.89	60.59	56.19	56.08	55.57
AQ09-PW01	alluvial aquifer	634.46	76.31	74.48	74.72	82.28
AR09-MW01	alluvial aquifer	635.27	65.01	60.15	61.17	60.16
AT10-PW01	alluvial aquifer	634.53	70.65	68.21	68.88	70.24
AV11-PW01	alluvial aquifer	633.58	67.49	56.32	73.47	71.17
AX12-MW01	alluvial aquifer	635.23	62.63	56.83	60.06	59.43
AX13-PW01	alluvial aquifer	630.85	59.92	53.10	57.48	58.00
AZ13-PW01	alluvial aquifer	628.25	64.23	66.36	61.19	51.25
D08-MW01	alluvial aquifer	600.67	19.64	18.43	18.33	18.78
E13-MW01	alluvial aquifer	625.47	44.56	43.20	43.27	43.90
F06-MW01	alluvial aquifer	601.14	20.98	19.62	19.28	19.57
G10-MW01	alluvial aquifer	631.40	56.16	54.84	54.43	54.79
G17-MW01	alluvial aquifer	632.81	49.23	47.62	48.32	48.72
J08-MW01	alluvial aquifer	630.21	51.62	50.27	49.58	48.32
K14-MW01	alluvial aquifer	627.34	48.04	46.33	46.37	47.08
K16-PW01	alluvial aquifer	621.74 *	44.51	42.26	42.21	42.34
K18-PW01	alluvial aquifer	634.92	-	-	-	-
K19-PW01	alluvial aquifer	634.20	-	-	-	-
L04-PW01	alluvial aquifer	589.75	-	-	-	-
L06-MW01**	alluvial aquifer	629.33	51.39	46.62	48.66	48.04
M16-MW01	alluvial aquifer	627.14	48.51	46.39	46.61	47.48
N05-MW01	alluvial aquifer	633.17	55.96	53.71	52.91	51.64
N13-MW01	alluvial aquifer	625.87	47.89	46.32	45.82	45.98
P06-MW02	alluvial aquifer	630.82	54.46	52.16	51.75	50.09
P08-MW01	alluvial aquifer	629.29	51.08	48.72	-	48.62
R04-MW02	perched water table	594.92	15.89	13.83	14.21	13.97
S05-MW02	alluvial aquifer	630.64	58.16	52.33	54.04	50.05
T13-MW01	alluvial aquifer	632.69	55.74	53.88	53.42	52.99
U04-MW01	perched water table	595.43	10.49	10.62	15.33	13.31
U16-MW01	alluvial aquifer	638.23	59.94	58.46	57.89	53.29
V09-MW01	alluvial aquifer	628.50	53.89	50.96	50.99	48.78
Y05-MW01	perched water table	631.16	57.59	54.19	54.71	51.86
Y14-MW01	alluvial aquifer	642.25	65.98	64.37	63.61	63.34
Y14-MW02	bedrock aquifer	643.12	63.37	67.58	67.03	66.35
Z07-MW01	alluvial aquifer	632.98	58.63	55.52	55.85	53.56

* for K16-PW01: 621.74 = top of concrete floor. 623.24 = elevation of top of concrete pump base.
** This well can only be measured if the teflon process area is not in operation due to safety concerns.
" - ": not measured: inaccesible due to well pumps/pipes (for PWs); P08-MW01 was not sampled in 3Q due to a nearby line break.

Table 5-2
Groundwater Elevation Data
2020 Routine Monitoring and Corrective Measures Assessment Report
Chemours Washington Works
Washington, West Virginia

Well ID	Aquifer Monitored	Measuring Point Elevation (Ft)	Groundwater Elevation (ft MSL)			
			1Q2020	2Q2020	3Q2020	4Q2020
AA05-MW01	alluvial aquifer	633.32	574.89	577.44	577.48	579.12
AB07-MW02	alluvial aquifer	633.02	574.93	577.27	577.50	578.84
AE11-MW01	alluvial aquifer	628.94	575.83	577.56	578.06	578.29
AJ06-MW01	alluvial aquifer	635.09	575.03	577.40	577.74	577.41
AJ06-MW02	bedrock aquifer	635.55	574.73	577.32	577.65	577.32
AL10-MW01	alluvial aquifer	631.61	573.53	576.75	576.80	577.96
AM07-PW01	alluvial aquifer	634.53	556.64	559.64	560.17	560.57
AO08-MW01	alluvial aquifer	636.02	570.32	575.74	575.80	576.29
AO08-PW01	alluvial aquifer	633.11	563.06	575.46	575.49	575.92
AQ09-MW01	alluvial aquifer	632.89	572.30	576.70	576.81	577.32
AQ09-PW01	alluvial aquifer	634.46	558.15	559.98	559.74	552.18
AR09-MW01	alluvial aquifer	635.27	570.26	575.12	574.10	575.11
AT10-PW01	alluvial aquifer	634.53	563.88	566.32	565.65	564.29
AV11-PW01	alluvial aquifer	633.58	566.09	577.26	560.11	562.41
AX12-MW01	alluvial aquifer	635.23	572.60	578.40	575.17	575.80
AX13-PW01	alluvial aquifer	630.85	570.93	577.75	573.37	572.85
AZ13-PW01	alluvial aquifer	628.25	564.02	561.89	567.06	577.00
D08-MW01	alluvial aquifer	600.67	581.03	582.24	582.34	581.89
E13-MW01	alluvial aquifer	625.47	580.91	582.27	582.20	581.57
F06-MW01	alluvial aquifer	601.14	580.16	581.52	581.86	581.57
G10-MW01	alluvial aquifer	631.40	575.24	576.56	576.97	576.61
G17-MW01	alluvial aquifer	632.81	583.58	585.19	584.49	584.09
J08-MW01	alluvial aquifer	630.21	578.59	579.94	580.63	581.89
K14-MW01	alluvial aquifer	627.34	579.30	581.01	580.97	580.26
K16-PW01	alluvial aquifer	623.24	578.73	580.98	581.03	580.90
L06-MW01**	alluvial aquifer	629.33	577.94	582.71	580.67	581.29
M16-MW01	alluvial aquifer	627.14	578.63	580.75	580.53	579.66
N05-MW01	alluvial aquifer	633.17	577.21	579.46	580.26	581.53
N13-MW01	alluvial aquifer	625.87	577.98	579.55	580.05	579.89
P06-MW02	alluvial aquifer	630.82	576.36	578.66	579.07	580.73
P08-MW01	alluvial aquifer	629.29	578.21	580.57	-	580.67
R04-MW02	perched water table	594.92	579.03	581.09	Dry	580.95
S05-MW02	alluvial aquifer	630.64	572.48	578.31	576.60	580.59
T13-MW01	alluvial aquifer	632.69	576.95	578.81	579.27	579.70
U04-MW01	perched water table	595.43	584.94	584.81	580.10	582.12
U16-MW01	alluvial aquifer	638.23	578.29	579.77	580.34	584.94
V09-MW01	alluvial aquifer	628.50	574.61	577.54	577.51	579.72
Y05-MW01	perched water table	631.16	573.57	576.97	576.45	579.30
Y14-MW01	alluvial aquifer	642.25	576.27	577.88	578.64	578.91
Y14-MW02	bedrock aquifer	643.12	579.75	575.54	576.09	576.77
Z07-MW01	alluvial aquifer	632.98	574.35	577.46	577.13	579.42
RANNEY WELL	alluvial aquifer	unavailable	563	564	565	567

" - ": not measured: inaccesible due to well pumps/pipes (for PWs); P08-MW01 was not sampled in 3Q due to a nearby line break.
Note that measurements from the RANNEY WELL are elevations readings from the plant site operators.

Appendix D

Gaging Data from USGS Station at Parkersburg, West Virginia

Appendix D
Gaging Data from USGS Station at Parkersburg, WV
2020 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works

---------- WARNING ----------
Some of the data that you have obtained from this U.S. Geological Survey database
may not have received Director's approval. Any such data values are qualified
as provisional and are subject to revision. Provisional data are released on the
condition that neither the USGS nor the United States Government may be held liable
for any damages resulting from its use.

Contact: gs-w_support_nwisweb@usgs.gov

from:
https://waterdata.usgs.gov/nwis/dv?referred_module=sw&site_no=03151000
Ohio River Data from USGS Gage Station at Parkersburg, WV

DESCRIPTION:
Latitude 39°16'05", Longitude 81°33'50" NAD27
Wood County, West Virginia, Hydrologic Unit 05030202
Drainage area: 35,650 square miles
Contributing drainage area: 35,650.00 square miles,
Datum of gage: 560.60 feet above NAVD88.

Data for the following 1 site(s) are contained in this file
USGS 03151000 OHIO RIVER AT PARKERSBURG, WV

#
Data provided for site 03151000
TS parameter statistic Description
159627 00065 00003 Gage height, feet (Mean)
#
#
agency_cd site_no datetime 159627_00065_00003 159627_00065_00003_cd

	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	1/1/2020	22.85		583.45
USGS	3151000	1/2/2020	22.57		583.17
USGS	3151000	1/3/2020	22.80		583.40
USGS	3151000	1/4/2020	24.58		585.18
USGS	3151000	1/5/2020	25.34		585.94
USGS	3151000	1/6/2020	24.23		584.83
USGS	3151000	1/7/2020	23.69		584.29
USGS	3151000	1/8/2020	23.27		583.87
USGS	3151000	1/9/2020	22.76		583.36
USGS	3151000	1/10/2020	22.46		583.06
USGS	3151000	1/11/2020	22.50		583.10
USGS	3151000	1/12/2020	22.64		583.24
USGS	3151000	1/13/2020	23.69		584.29
USGS	3151000	1/14/2020	23.62		584.22
USGS	3151000	1/15/2020	22.83		583.43
USGS	3151000	1/16/2020	22.66		583.26
USGS	3151000	1/17/2020	22.51		583.11
USGS	3151000	1/18/2020	22.64		583.24
USGS	3151000	1/19/2020	24.15		584.75
USGS	3151000	1/20/2020	24.53		585.13
USGS	3151000	1/21/2020	23.65		584.25
USGS	3151000	1/22/2020	22.92		583.52
USGS	3151000	1/23/2020	22.71		583.31
USGS	3151000	1/24/2020	22.44		583.04
USGS	3151000	1/25/2020	25.40		586.00
USGS	3151000	1/26/2020	26.64		587.24
USGS	3151000	1/27/2020	26.22		586.82
USGS	3151000	1/28/2020	24.92		585.52
USGS	3151000	1/29/2020	23.94		584.54
USGS	3151000	1/30/2020	23.34		583.94
USGS	3151000	1/31/2020	22.86		583.46
USGS	3151000	2/1/2020	22.46		583.06
USGS	3151000	2/2/2020	22.27		582.87
USGS	3151000	2/3/2020	22.25		582.85

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	2/4/2020	21.96		582.56
USGS	3151000	2/5/2020	22.31		582.91
USGS	3151000	2/6/2020	22.91		583.51
USGS	3151000	2/7/2020	24.20		584.80
USGS	3151000	2/8/2020	25.08		585.68
USGS	3151000	2/9/2020	24.66		585.26
USGS	3151000	2/10/2020	25.45		586.05
USGS	3151000	2/11/2020	27.95		588.55
USGS	3151000	2/12/2020	28.89		589.49
USGS	3151000	2/13/2020	30.41		591.01
USGS	3151000	2/14/2020	30.47		591.07
USGS	3151000	2/15/2020	28.07		588.67
USGS	3151000	2/16/2020	25.81		586.41
USGS	3151000	2/17/2020	24.72		585.32
USGS	3151000	2/18/2020	24.23		584.83
USGS	3151000	2/19/2020	23.69		584.29
USGS	3151000	2/20/2020	23.63		584.23
USGS	3151000	2/21/2020	23.35		583.95
USGS	3151000	2/22/2020	22.71		583.31
USGS	3151000	2/23/2020	22.22		582.82
USGS	3151000	2/24/2020	21.99		582.59
USGS	3151000	2/25/2020	22.05		582.65
USGS	3151000	2/26/2020	22.10		582.70
USGS	3151000	2/27/2020	22.48		583.08
USGS	3151000	2/28/2020	23.57		584.17
USGS	3151000	2/29/2020	23.96		584.56
USGS	3151000	3/1/2020	23.33		583.93
USGS	3151000	3/2/2020	22.80		583.40
USGS	3151000	3/3/2020	23.20		583.80
USGS	3151000	3/4/2020	24.68		585.28
USGS	3151000	3/5/2020	25.13		585.73
USGS	3151000	3/6/2020	24.70		585.30
USGS	3151000	3/7/2020	23.90		584.50
USGS	3151000	3/8/2020	23.39		583.99
USGS	3151000	3/9/2020	22.65		583.25
USGS	3151000	3/10/2020	22.61		583.21
USGS	3151000	3/11/2020	22.49		583.09
USGS	3151000	3/12/2020	22.28		582.88
USGS	3151000	3/13/2020	22.91		583.51
USGS	3151000	3/14/2020	22.61		583.21
USGS	3151000	3/15/2020	22.45		583.05
USGS	3151000	3/16/2020	22.54		583.14
USGS	3151000	3/17/2020	22.53		583.13
USGS	3151000	3/18/2020	22.24		582.84
USGS	3151000	3/19/2020	24.74		585.34
USGS	3151000	3/20/2020	27.21		587.81
USGS	3151000	3/21/2020	30.60		591.20
USGS	3151000	3/22/2020	28.48		589.08
USGS	3151000	3/23/2020	25.43		586.03
USGS	3151000	3/24/2020	24.78		585.38
USGS	3151000	3/25/2020	24.92		585.52
USGS	3151000	3/26/2020	24.70		585.30
USGS	3151000	3/27/2020	24.42		585.02
USGS	3151000	3/28/2020	24.13		584.73
USGS	3151000	3/29/2020	26.65		587.25
USGS	3151000	3/30/2020	29.25		589.85
USGS	3151000	3/31/2020	27.67		588.27

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	4/1/2020	25.97		586.57
USGS	3151000	4/2/2020	25.13		585.73
USGS	3151000	4/3/2020	24.23		584.83
USGS	3151000	4/4/2020	23.76		584.36
USGS	3151000	4/5/2020	23.14		583.74
USGS	3151000	4/6/2020	22.62		583.22
USGS	3151000	4/7/2020	22.29		582.89
USGS	3151000	4/8/2020	23.09		583.69
USGS	3151000	4/9/2020	25.20		585.80
USGS	3151000	4/10/2020	25.07		585.67
USGS	3151000	4/11/2020	24.04		584.64
USGS	3151000	4/12/2020	23.22		583.82
USGS	3151000	4/13/2020	23.27		583.87
USGS	3151000	4/14/2020	24.56		585.16
USGS	3151000	4/15/2020	24.20		584.80
USGS	3151000	4/16/2020	24.07		584.67
USGS	3151000	4/17/2020	23.52		584.12
USGS	3151000	4/18/2020	23.85		584.45
USGS	3151000	4/19/2020	24.91		585.51
USGS	3151000	4/20/2020	24.53		585.13
USGS	3151000	4/21/2020	23.96		584.56
USGS	3151000	4/22/2020	23.20		583.80
USGS	3151000	4/23/2020	22.70		583.30
USGS	3151000	4/24/2020	22.72		583.32
USGS	3151000	4/25/2020	22.50		583.10
USGS	3151000	4/26/2020	23.03		583.63
USGS	3151000	4/27/2020	25.69		586.29
USGS	3151000	4/28/2020	25.58		586.18
USGS	3151000	4/29/2020	24.25		584.85
USGS	3151000	4/30/2020	25.02		585.62
USGS	3151000	5/1/2020	26.87		587.47
USGS	3151000	5/2/2020	26.32		586.92
USGS	3151000	5/3/2020	24.63		585.23
USGS	3151000	5/4/2020	24.69		585.29
USGS	3151000	5/5/2020	24.63		585.23
USGS	3151000	5/6/2020	24.07		584.67
USGS	3151000	5/7/2020	23.39		583.99
USGS	3151000	5/8/2020	22.74		583.34
USGS	3151000	5/9/2020	23.11		583.71
USGS	3151000	5/10/2020	23.08		583.68
USGS	3151000	5/11/2020	22.74		583.34
USGS	3151000	5/12/2020	22.18		582.78
USGS	3151000	5/13/2020	21.97		582.57
USGS	3151000	5/14/2020	22.15		582.75
USGS	3151000	5/15/2020	22.12		582.72
USGS	3151000	5/16/2020	21.99		582.59
USGS	3151000	5/17/2020	22.11		582.71
USGS	3151000	5/18/2020	22.49		583.09
USGS	3151000	5/19/2020	21.98		582.58
USGS	3151000	5/20/2020	23.95		584.55
USGS	3151000	5/21/2020	25.02		585.62
USGS	3151000	5/22/2020	25.27		585.87
USGS	3151000	5/23/2020	24.85		585.45
USGS	3151000	5/24/2020	23.69		584.29
USGS	3151000	5/25/2020	22.61		583.21
USGS	3151000	5/26/2020	22.42		583.02
USGS	3151000	5/27/2020	22.14		582.74

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	5/28/2020	22.35		582.95
USGS	3151000	5/29/2020	22.43		583.03
USGS	3151000	5/30/2020	22.28		582.88
USGS	3151000	5/31/2020	22.11		582.71
USGS	3151000	6/1/2020	21.88		582.48
USGS	3151000	6/2/2020	21.74		582.34
USGS	3151000	6/3/2020	21.75		582.35
USGS	3151000	6/4/2020	21.65		582.25
USGS	3151000	6/5/2020	21.97		582.57
USGS	3151000	6/6/2020	22.04		582.64
USGS	3151000	6/7/2020	21.76		582.36
USGS	3151000	6/8/2020	21.82		582.42
USGS	3151000	6/9/2020	21.32		581.92
USGS	3151000	6/10/2020	21.35		581.95
USGS	3151000	6/11/2020	21.53		582.13
USGS	3151000	6/12/2020	21.77		582.37
USGS	3151000	6/13/2020	21.58		582.18
USGS	3151000	6/14/2020	21.50		582.10
USGS	3151000	6/15/2020	21.72		582.32
USGS	3151000	6/16/2020	21.54		582.14
USGS	3151000	6/17/2020	21.77		582.37
USGS	3151000	6/18/2020	21.21		581.81
USGS	3151000	6/19/2020	21.60		582.20
USGS	3151000	6/20/2020	21.86		582.46
USGS	3151000	6/21/2020	21.67		582.27
USGS	3151000	6/22/2020	21.39		581.99
USGS	3151000	6/23/2020	21.86		582.46
USGS	3151000	6/24/2020	21.55		582.15
USGS	3151000	6/25/2020	21.52		582.12
USGS	3151000	6/26/2020	21.62		582.22
USGS	3151000	6/27/2020	21.48		582.08
USGS	3151000	6/28/2020	21.78		582.38
USGS	3151000	6/29/2020	21.60		582.20
USGS	3151000	6/30/2020	21.44		582.04
USGS	3151000	7/1/2020	21.40		582.00
USGS	3151000	7/2/2020	21.64		582.24
USGS	3151000	7/3/2020	21.43		582.03
USGS	3151000	7/4/2020	21.48		582.08
USGS	3151000	7/5/2020	21.57		582.17
USGS	3151000	7/6/2020	21.77		582.37
USGS	3151000	7/7/2020	21.33		581.93
USGS	3151000	7/8/2020	21.60		582.20
USGS	3151000	7/9/2020	21.41		582.01
USGS	3151000	7/10/2020	21.64		582.24
USGS	3151000	7/11/2020	21.59		582.19
USGS	3151000	7/12/2020	21.71		582.31
USGS	3151000	7/13/2020	21.59		582.19
USGS	3151000	7/14/2020	21.61		582.21
USGS	3151000	7/15/2020	21.51		582.11
USGS	3151000	7/16/2020	21.82		582.42
USGS	3151000	7/17/2020	21.57		582.17
USGS	3151000	7/18/2020	21.44		582.04
USGS	3151000	7/19/2020	21.53		582.13
USGS	3151000	7/20/2020	21.04		581.64
USGS	3151000	7/21/2020	21.48		582.08
USGS	3151000	7/22/2020	21.37		581.97
USGS	3151000	7/23/2020	21.60		582.20

Appendix D
Gaging Data from USGS Station at Parkersburg, WV
2020 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works

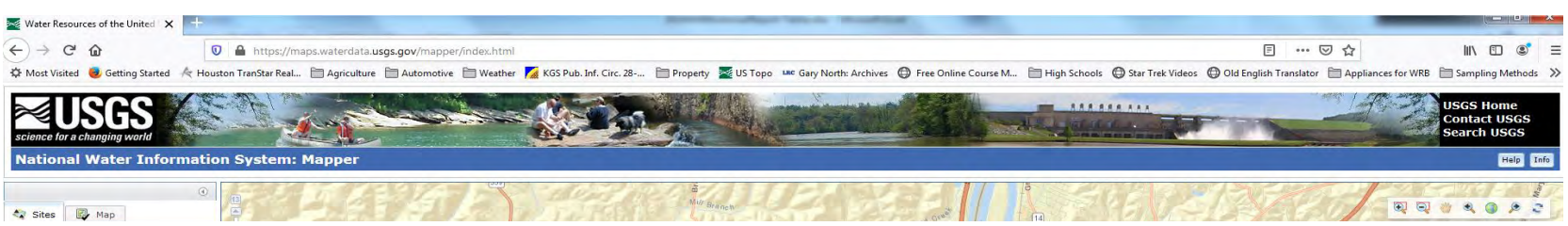
	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	7/24/2020	21.75		582.35
USGS	3151000	7/25/2020	21.77		582.37
USGS	3151000	7/26/2020	21.81		582.41
USGS	3151000	7/27/2020	21.47		582.07
USGS	3151000	7/28/2020	21.64		582.24
USGS	3151000	7/29/2020	21.77		582.37
USGS	3151000	7/30/2020	21.70		582.30
USGS	3151000	7/31/2020	21.77		582.37
USGS	3151000	8/1/2020	21.99		582.59
USGS	3151000	8/2/2020	21.98		582.58
USGS	3151000	8/3/2020	21.40		582.00
USGS	3151000	8/4/2020	21.88		582.48
USGS	3151000	8/5/2020	21.64		582.24
USGS	3151000	8/6/2020	21.69		582.29
USGS	3151000	8/7/2020	21.53		582.13
USGS	3151000	8/8/2020	21.55		582.15
USGS	3151000	8/9/2020	21.40		582.00
USGS	3151000	8/10/2020	21.39		581.99
USGS	3151000	8/11/2020	21.34		581.94
USGS	3151000	8/12/2020	21.68		582.28
USGS	3151000	8/13/2020	21.56		582.16
USGS	3151000	8/14/2020	21.20		581.80
USGS	3151000	8/15/2020	21.64		582.24
USGS	3151000	8/16/2020	21.28		581.88
USGS	3151000	8/17/2020	21.46		582.06
USGS	3151000	8/18/2020	21.74		582.34
USGS	3151000	8/19/2020	21.26		581.86
USGS	3151000	8/20/2020	21.37		581.97
USGS	3151000	8/21/2020	21.47		582.07
USGS	3151000	8/22/2020	21.41		582.01
USGS	3151000	8/23/2020	21.43		582.03
USGS	3151000	8/24/2020	21.45		582.05
USGS	3151000	8/25/2020	21.35		581.95
USGS	3151000	8/26/2020	21.54		582.14
USGS	3151000	8/27/2020	21.54		582.14
USGS	3151000	8/28/2020	21.90		582.50
USGS	3151000	8/29/2020	21.82		582.42
USGS	3151000	8/30/2020	21.86		582.46
USGS	3151000	8/31/2020	21.60		582.20
USGS	3151000	9/1/2020	21.57		582.17
USGS	3151000	9/2/2020	21.48		582.08
USGS	3151000	9/3/2020	21.64		582.24
USGS	3151000	9/4/2020	21.85		582.45
USGS	3151000	9/5/2020	21.84		582.44
USGS	3151000	9/6/2020	21.48		582.08
USGS	3151000	9/7/2020	21.67		582.27
USGS	3151000	9/8/2020	21.62		582.22
USGS	3151000	9/9/2020	21.50		582.10
USGS	3151000	9/10/2020	21.85		582.45
USGS	3151000	9/11/2020	21.55		582.15
USGS	3151000	9/12/2020	21.47		582.07
USGS	3151000	9/13/2020	21.80		582.40
USGS	3151000	9/14/2020	21.38		581.98
USGS	3151000	9/15/2020	21.32		581.92
USGS	3151000	9/16/2020	21.45		582.05
USGS	3151000	9/17/2020	21.63		582.23
USGS	3151000	9/18/2020	21.59		582.19

Appendix D
Gaging Data from USGS Station at Parkersburg, WV
2020 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works

	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	9/19/2020	21.57		582.17
USGS	3151000	9/20/2020	21.56		582.16
USGS	3151000	9/21/2020	21.65		582.25
USGS	3151000	9/22/2020	21.46		582.06
USGS	3151000	9/23/2020	21.33		581.93
USGS	3151000	9/24/2020	21.55		582.15
USGS	3151000	9/25/2020	21.76		582.36
USGS	3151000	9/26/2020	21.61		582.21
USGS	3151000	9/27/2020	21.37		581.97
USGS	3151000	9/28/2020	21.37		581.97
USGS	3151000	9/29/2020	21.80		582.40
USGS	3151000	9/30/2020	21.64		582.24
USGS	3151000	10/1/2020	21.53		582.13
USGS	3151000	10/2/2020	21.75		582.35
USGS	3151000	10/3/2020	21.58		582.18
USGS	3151000	10/4/2020	21.29		581.89
USGS	3151000	10/5/2020	21.50		582.10
USGS	3151000	10/6/2020	21.66		582.26
USGS	3151000	10/7/2020	21.59		582.19
USGS	3151000	10/8/2020	21.54		582.14
USGS	3151000	10/9/2020	21.57		582.17
USGS	3151000	10/10/2020	21.77		582.37
USGS	3151000	10/11/2020	21.58		582.18
USGS	3151000	10/12/2020	21.66		582.26
USGS	3151000	10/13/2020	21.58		582.18
USGS	3151000	10/14/2020	21.54		582.14
USGS	3151000	10/15/2020	21.53		582.13
USGS	3151000	10/16/2020	21.61		582.21
USGS	3151000	10/17/2020	21.58		582.18
USGS	3151000	10/18/2020	21.57		582.17
USGS	3151000	10/19/2020	21.56		582.16
USGS	3151000	10/20/2020	21.64		582.24
USGS	3151000	10/21/2020	21.63		582.23
USGS	3151000	10/22/2020	21.63		582.23
USGS	3151000	10/23/2020	21.69		582.29
USGS	3151000	10/24/2020	21.66		582.26
USGS	3151000	10/25/2020	21.76		582.36
USGS	3151000	10/26/2020	21.67		582.27
USGS	3151000	10/27/2020	21.62		582.22
USGS	3151000	10/28/2020	21.39		581.99
USGS	3151000	10/29/2020	21.14		581.74
USGS	3151000	10/30/2020	21.74		582.34
USGS	3151000	10/31/2020	21.87		582.47
USGS	3151000	11/1/2020	21.75		582.35
USGS	3151000	11/2/2020	21.59		582.19
USGS	3151000	11/3/2020	21.71		582.31
USGS	3151000	11/4/2020	21.79		582.39
USGS	3151000	11/5/2020	21.59		582.19
USGS	3151000	11/6/2020	21.77		582.37
USGS	3151000	11/7/2020	21.56		582.16
USGS	3151000	11/8/2020	21.45		582.05
USGS	3151000	11/9/2020	21.76		582.36
USGS	3151000	11/10/2020	21.40		582.00
USGS	3151000	11/11/2020	21.57		582.17
USGS	3151000	11/12/2020	21.79		582.39
USGS	3151000	11/13/2020	22.03		582.63
USGS	3151000	11/14/2020	21.83		582.43

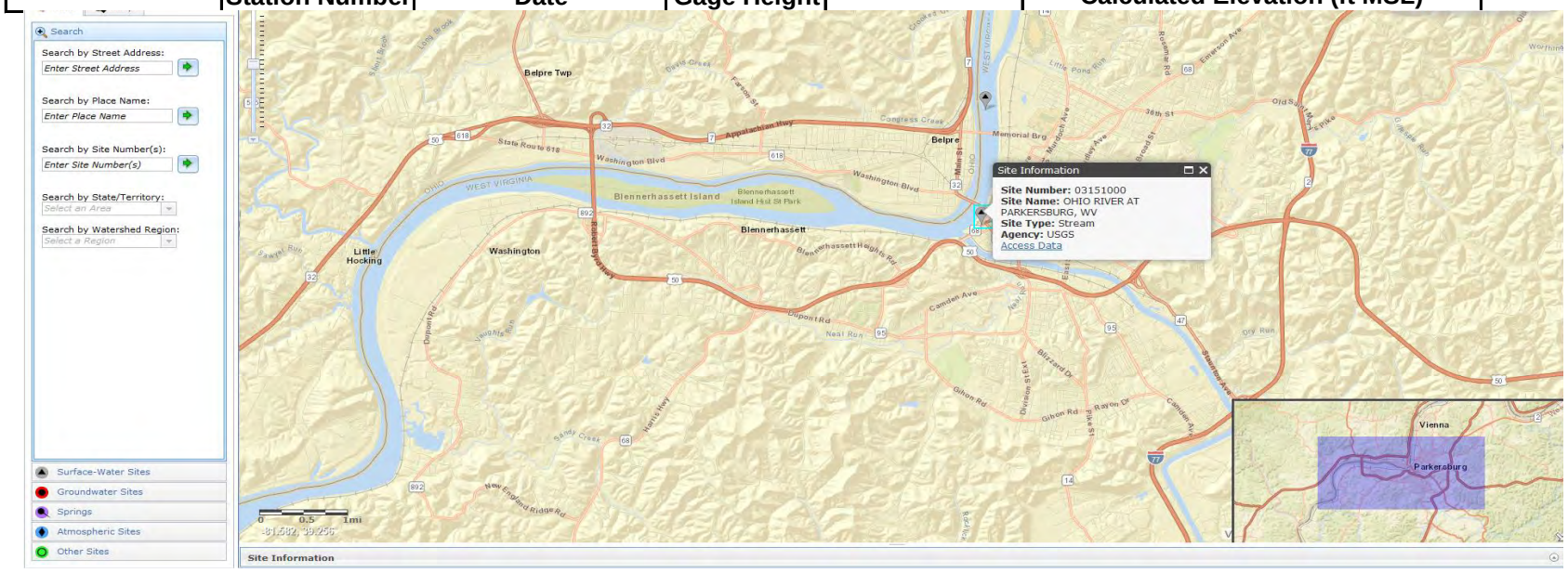
Appendix D
Gaging Data from USGS Station at Parkersburg, WV
2020 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works

	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	11/15/2020	21.75		582.35
USGS	3151000	11/16/2020	21.62		582.22
USGS	3151000	11/17/2020	21.75		582.35
USGS	3151000	11/18/2020	21.48		582.08
USGS	3151000	11/19/2020	21.48		582.08
USGS	3151000	11/20/2020	21.58		582.18
USGS	3151000	11/21/2020	21.71		582.31
USGS	3151000	11/22/2020	21.46		582.06
USGS	3151000	11/23/2020	21.71		582.31
USGS	3151000	11/24/2020	21.70		582.30
USGS	3151000	11/25/2020	21.81		582.41
USGS	3151000	11/26/2020	21.85		582.45
USGS	3151000	11/27/2020	21.97		582.57
USGS	3151000	11/28/2020	21.93		582.53
USGS	3151000	11/29/2020	21.82		582.42
USGS	3151000	11/30/2020	21.80		582.40
USGS	3151000	12/1/2020	22.00		582.60
USGS	3151000	12/2/2020	22.31		582.91
USGS	3151000	12/3/2020	21.92		582.52
USGS	3151000	12/4/2020	22.07		582.67
USGS	3151000	12/5/2020	21.99		582.59
USGS	3151000	12/6/2020	22.28		582.88
USGS	3151000	12/7/2020	22.00		582.60
USGS	3151000	12/8/2020	21.82		582.42
USGS	3151000	12/9/2020	21.74		582.34
USGS	3151000	12/10/2020	21.83		582.43
USGS	3151000	12/11/2020	21.72		582.32
USGS	3151000	12/12/2020	21.55		582.15
USGS	3151000	12/13/2020	21.50		582.10
USGS	3151000	12/14/2020	21.73		582.33
USGS	3151000	12/15/2020	21.83		582.43
USGS	3151000	12/16/2020	21.70		582.30
USGS	3151000	12/17/2020	21.97		582.57
USGS	3151000	12/18/2020	22.02		582.62
USGS	3151000	12/19/2020	21.83		582.43
USGS	3151000	12/20/2020	21.79		582.39
USGS	3151000	12/21/2020	21.63		582.23
USGS	3151000	12/22/2020	21.88		582.48
USGS	3151000	12/23/2020	21.90		582.50
USGS	3151000	12/24/2020	22.37		582.97
USGS	3151000	12/25/2020	23.60		584.20
USGS	3151000	12/26/2020	24.62		585.22
USGS	3151000	12/27/2020	23.73		584.33
USGS	3151000	12/28/2020	22.81		583.41
USGS	3151000	12/29/2020	22.90		583.50
USGS	3151000	12/30/2020	23.34		583.94
USGS	3151000	12/31/2020	23.37		583.97



Appendix D
Gaging Data from USGS Station at Parkersburg, WV
2020 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works

	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)



2021 Routine Monitoring and Corrective Measures Assessment Report

Chemours Washington Works Plant
Washington, West Virginia

Submitted on behalf of:
The Chemours Company

Submitted by:
AECOM
Sabre Building
Suite 300
4051 Ogletown Road
Newark, DE 19713

Project Number: 60675595/60675597
Date: March 2022

Table 5-1
Potentiometric Measurements
2021 Routine Monitoring and Corrective Measures Assessment Report
Chemours Washington Works
Washington, West Virginia

Well ID	Aquifer Monitored	Measuring Point Elevation (Ft)	Depth to Groundwater Measurements	
			1H2021	2H2021
AA05-MW01	alluvial aquifer	633.32	56.73	58.09
AB07-MW02	alluvial aquifer	633.02	56.02	57.66
AE11-MW01	alluvial aquifer	628.94	51.60	53.22
AJ06-MW01	alluvial aquifer	635.09	58.03	59.20
AJ06-MW02	bedrock aquifer	635.55	58.53	59.63
AL10-MW01	alluvial aquifer	631.61	55.88	56.58
AM07-PW01	alluvial aquifer	634.53	-	-
AO08-MW01	alluvial aquifer	636.02	61.05	62.84
AO08-PW01	alluvial aquifer	633.11	58.49	70.90
AQ09-MW01	alluvial aquifer	632.89	56.89	58.10
AQ09-PW01	alluvial aquifer	634.46	61.05	60.05
AR09-MW01	alluvial aquifer	635.27	61.63	60.47
AT10-PW01	alluvial aquifer	634.53	70.15	70.56
AV11-PW01	alluvial aquifer	633.58	70.78	69.42
AX12-MW01	alluvial aquifer	635.23	62.73	59.80
AX13-PW01	alluvial aquifer	630.85	60.21	56.95
AZ13-PW01	alluvial aquifer	628.25	67.21	66.90
D08-MW01	alluvial aquifer	600.67	19.39	20.60
E13-MW01	alluvial aquifer	625.47	44.49	45.77
F06-MW01	alluvial aquifer	601.14	20.28	21.79
G10-MW01	alluvial aquifer	631.40	55.64	57.04
G17-MW01	alluvial aquifer	632.81	50.53	50.66
J08-MW01	alluvial aquifer	630.21	50.52	52.49
K14-MW01	alluvial aquifer	627.34	47.76	49.22
K16-PW01	alluvial aquifer	621.74 *	48.29	46.11
L06-MW01**	alluvial aquifer	629.33	49.65	52.29
M16-MW01	alluvial aquifer	627.14	48.29	49.65
N05-MW01	alluvial aquifer	633.17	53.91	56.55
N13-MW01	alluvial aquifer	625.87	47.05	48.74
P06-MW02	alluvial aquifer	630.82	52.79	54.91
P08-MW01	alluvial aquifer	629.29	54.22	53.34
R04-MW02	perched water table	594.92	14.42	16.17
S05-MW02	alluvial aquifer	630.64	54.21	56.28
T13-MW01	alluvial aquifer	632.69	54.59	56.44
U04-MW01	perched water table	595.43	10.85	10.75
U16-MW01	alluvial aquifer	638.23	59.05	60.86
V09-MW01	alluvial aquifer	628.50	52.04	53.90
Y05-MW01	perched water table	631.16	55.51	57.35
Y14-MW01	alluvial aquifer	642.25	64.61	66.52
Y14-MW02	bedrock aquifer	643.12	67.96	69.88
Z07-MW01	alluvial aquifer	632.98	56.65	58.12

Ft = Feet

* for K16-PW01: 621.74 = top of concrete floor. 623.24 = elevation of top of concrete pump base.

** This well can only be measured if the teflon process area is not in operation due to safety concerns.

- = not measured

Table 5-2
Groundwater Elevation Data
2021 Routine Monitoring and Corrective Measures Assessment Report
Chemours Washington Works
Washington, West Virginia

Well ID	Aquifer Monitored	Measuring Point Elevation (Ft)	Groundwater Elevation (ft MSL)	
			1H2021	2H2021
AA05-MW01	alluvial aquifer	633.32	576.59	575.23
AB07-MW02	alluvial aquifer	633.02	577.00	575.36
AE11-MW01	alluvial aquifer	628.94	577.34	575.72
AJ06-MW01	alluvial aquifer	635.09	577.06	575.89
AJ06-MW02	bedrock aquifer	635.55	577.02	575.92
AL10-MW01	alluvial aquifer	631.61	575.73	575.03
AM07-PW01	alluvial aquifer	634.53	-	-
AO08-MW01	alluvial aquifer	636.02	574.97	573.18
AO08-PW01	alluvial aquifer	633.11	574.62	562.21
AQ09-MW01	alluvial aquifer	632.89	576.00	574.79
AQ09-PW01	alluvial aquifer	634.46	573.41	574.41
AR09-MW01	alluvial aquifer	635.27	573.64	574.80
AT10-PW01	alluvial aquifer	634.53	564.38	563.97
AV11-PW01	alluvial aquifer	633.58	562.80	564.16
AX12-MW01	alluvial aquifer	635.23	572.50	575.43
AX13-PW01	alluvial aquifer	630.85	570.64	573.90
AZ13-PW01	alluvial aquifer	628.25	561.04	561.35
D08-MW01	alluvial aquifer	600.67	581.28	580.07
E13-MW01	alluvial aquifer	625.47	580.98	579.70
F06-MW01	alluvial aquifer	601.14	580.86	579.35
G10-MW01	alluvial aquifer	631.40	575.76	574.36
G17-MW01	alluvial aquifer	632.81	582.28	582.15
J08-MW01	alluvial aquifer	630.21	579.69	577.72
K14-MW01	alluvial aquifer	627.34	579.58	578.12
K16-PW01	alluvial aquifer	623.24	574.95	577.13
L06-MW01**	alluvial aquifer	629.33	579.68	577.04
M16-MW01	alluvial aquifer	627.14	578.85	577.49
N05-MW01	alluvial aquifer	633.17	579.26	576.62
N13-MW01	alluvial aquifer	625.87	578.82	577.13
P06-MW02	alluvial aquifer	630.82	578.03	575.91
P08-MW01	alluvial aquifer	629.29	575.07	575.95
R04-MW02	perched water table	594.92	580.50	578.75
S05-MW02	alluvial aquifer	630.64	576.43	574.36
T13-MW01	alluvial aquifer	632.69	578.10	576.25
U04-MW01	perched water table	595.43	584.58	584.68
U16-MW01	alluvial aquifer	638.23	579.18	577.37
V09-MW01	alluvial aquifer	628.50	576.46	574.60
Y05-MW01	perched water table	631.16	575.65	573.81
Y14-MW01	alluvial aquifer	642.25	577.64	575.73
Y14-MW02	bedrock aquifer	643.12	575.16	573.24
Z07-MW01	alluvial aquifer	632.98	576.33	574.86
RANNEY WELL	alluvial aquifer	unavailable	563	564

ft msl = feet above mean sea level

- = not measured

Appendix D

Gaging Data from USGS Station at Parkersburg, West Virginia

Appendix D
Gaging Data from USGS Station at Parkersburg, WV
2021 Routine Monitoring and Corrective Measures Assessment Report
Chemours Washington Works

---------- WARNING ----------
Some of the data that you have obtained from this U.S. Geological Survey database
may not have received Director's approval. Any such data values are qualified
as provisional and are subject to revision. Provisional data are released on the
condition that neither the USGS nor the United States Government may be held liable
for any damages resulting from its use.

Contact: gs-w_support_nwisweb@usgs.gov

from:
https://waterdata.usgs.gov/nwis/dv?referred_module=sw&site_no=03151000
Ohio River Data from USGS Gage Station at Parkersburg, WV

DESCRIPTION:
Latitude 39°16'05", Longitude 81°33'50" NAD27
Wood County, West Virginia, Hydrologic Unit 05030202
Drainage area: 35,650 square miles
Contributing drainage area: 35,650.00 square miles,
Datum of gage: 560.60 feet above NAVD88

Data for the following 1 site(s) are contained in this file
USGS 03151000 OHIO RIVER AT PARKERSBURG, WV

#
Data provided for site 03151000
TS parameter statistic Description
159627 00065 00003 Gage height, feet (Mean)
#
#
agency_cd site_no datetime 159627_00065_00003 159627_00065_00003_cd

	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	1/1/2021	24.42		585.02
USGS	3151000	1/2/2021	26.73		587.33
USGS	3151000	1/3/2021	26.66		587.26
USGS	3151000	1/4/2021	26.16		586.76
USGS	3151000	1/5/2021	25.62		586.22
USGS	3151000	1/6/2021	24.47		585.07
USGS	3151000	1/7/2021	23.52		584.12
USGS	3151000	1/8/2021	22.75		583.35
USGS	3151000	1/9/2021	22.28		582.88
USGS	3151000	1/10/2021	21.95		582.55
USGS	3151000	1/11/2021	22.10		582.70
USGS	3151000	1/12/2021	21.67		582.27
USGS	3151000	1/13/2021	21.74		582.34
USGS	3151000	1/14/2021	21.54		582.14
USGS	3151000	1/15/2021	21.68		582.28
USGS	3151000	1/16/2021	21.74		582.34
USGS	3151000	1/17/2021	21.83		582.43
USGS	3151000	1/18/2021	21.61		582.21
USGS	3151000	1/19/2021	21.61		582.21
USGS	3151000	1/20/2021	21.63		582.23
USGS	3151000	1/21/2021	21.58		582.18
USGS	3151000	1/22/2021	21.82		582.42
USGS	3151000	1/23/2021	21.79		582.39
USGS	3151000	1/24/2021	21.66		582.26
USGS	3151000	1/25/2021	21.49		582.09
USGS	3151000	1/26/2021	21.80		582.40
USGS	3151000	1/27/2021	21.84		582.44
USGS	3151000	1/28/2021	21.58		582.18
USGS	3151000	1/29/2021	21.65		582.25
USGS	3151000	1/30/2021	21.45		582.05
USGS	3151000	1/31/2021	21.85		582.45
USGS	3151000	2/1/2021	22.62		583.22
USGS	3151000	2/2/2021	22.62		583.22
USGS	3151000	2/3/2021	22.06		582.66
USGS	3151000	2/4/2021	21.71		582.31
USGS	3151000	2/5/2021	21.61		582.21
USGS	3151000	2/6/2021	21.83		582.43
USGS	3151000	2/7/2021	21.70		582.30
USGS	3151000	2/8/2021	21.44		582.04
USGS	3151000	2/9/2021	21.54		582.14
USGS	3151000	2/10/2021	21.59		582.19

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Gaging Data from USGS Station at Parkersburg, WV
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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	2/11/2021	21.50		582.10
USGS	3151000	2/12/2021	21.82		582.42
USGS	3151000	2/13/2021	21.43		582.03
USGS	3151000	2/14/2021	21.76		582.36
USGS	3151000	2/15/2021	21.61		582.21
USGS	3151000	2/16/2021	21.89		582.49
USGS	3151000	2/17/2021	22.24		582.84
USGS	3151000	2/18/2021	21.79		582.39
USGS	3151000	2/19/2021	21.83		582.43
USGS	3151000	2/20/2021	22.15		582.75
USGS	3151000	2/21/2021	21.61		582.21
USGS	3151000	2/22/2021	21.77		582.37
USGS	3151000	2/23/2021	22.09		582.69
USGS	3151000	2/24/2021	22.64		583.24
USGS	3151000	2/25/2021	23.49		584.09
USGS	3151000	2/26/2021	23.48		584.08
USGS	3151000	2/27/2021	23.25		583.85
USGS	3151000	2/28/2021	23.81		584.41
USGS	3151000	3/1/2021	29.05		589.65
USGS	3151000	3/2/2021	32.29		592.89
USGS	3151000	3/3/2021	31.66		592.26
USGS	3151000	3/4/2021	26.62		587.22
USGS	3151000	3/5/2021	24.85		585.45
USGS	3151000	3/6/2021	23.97		584.57
USGS	3151000	3/7/2021	23.03		583.63
USGS	3151000	3/8/2021	22.55		583.15
USGS	3151000	3/9/2021	22.14		582.74
USGS	3151000	3/10/2021	21.95		582.55
USGS	3151000	3/11/2021	21.97		582.57
USGS	3151000	3/12/2021	22.28		582.88
USGS	3151000	3/13/2021	22.17		582.77
USGS	3151000	3/14/2021	22.43		583.03
USGS	3151000	3/15/2021	22.00		582.60
USGS	3151000	3/16/2021	22.06		582.66
USGS	3151000	3/17/2021	22.06		582.66
USGS	3151000	3/18/2021	21.95		582.55
USGS	3151000	3/19/2021	23.47		584.07
USGS	3151000	3/20/2021	23.32		583.92
USGS	3151000	3/21/2021	22.53		583.13
USGS	3151000	3/22/2021	22.15		582.75
USGS	3151000	3/23/2021	21.89		582.49
USGS	3151000	3/24/2021	22.22		582.82
USGS	3151000	3/25/2021	21.77		582.37
USGS	3151000	3/26/2021	21.72		582.32
USGS	3151000	3/27/2021	21.85		582.45
USGS	3151000	3/28/2021	21.99		582.59
USGS	3151000	3/29/2021	22.44		583.04
USGS	3151000	3/30/2021	22.13		582.73
USGS	3151000	3/31/2021	22.17		582.77
USGS	3151000	4/1/2021	22.26		582.86
USGS	3151000	4/2/2021	22.68		583.28
USGS	3151000	4/3/2021	22.42		583.02
USGS	3151000	4/4/2021	21.97		582.57
USGS	3151000	4/5/2021	21.81		582.41
USGS	3151000	4/6/2021	21.73		582.33
USGS	3151000	4/7/2021	21.79		582.39
USGS	3151000	4/8/2021	21.48		582.08
USGS	3151000	4/9/2021	21.78		582.38
USGS	3151000	4/10/2021	21.47		582.07
USGS	3151000	4/11/2021	21.91		582.51
USGS	3151000	4/12/2021	22.05		582.65
USGS	3151000	4/13/2021	21.88		582.48
USGS	3151000	4/14/2021	22.03		582.63
USGS	3151000	4/15/2021	21.77		582.37

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	4/16/2021	21.90		582.50
USGS	3151000	4/17/2021	21.50		582.10
USGS	3151000	4/18/2021	21.65		582.25
USGS	3151000	4/19/2021	21.42		582.02
USGS	3151000	4/20/2021	21.75		582.35
USGS	3151000	4/21/2021	21.39		581.99
USGS	3151000	4/22/2021	21.53		582.13
USGS	3151000	4/23/2021	21.80		582.40
USGS	3151000	4/24/2021	21.51		582.11
USGS	3151000	4/25/2021	21.57		582.17
USGS	3151000	4/26/2021	21.60		582.20
USGS	3151000	4/27/2021	21.55		582.15
USGS	3151000	4/28/2021	21.38		581.98
USGS	3151000	4/29/2021	21.83		582.43
USGS	3151000	4/30/2021	22.56		583.16
USGS	3151000	5/1/2021	22.77		583.37
USGS	3151000	5/2/2021	22.62		583.22
USGS	3151000	5/3/2021	22.35		582.95
USGS	3151000	5/4/2021	22.59		583.19
USGS	3151000	5/5/2021	24.72		585.32
USGS	3151000	5/6/2021	26.09		586.69
USGS	3151000	5/7/2021	24.61		585.21
USGS	3151000	5/8/2021	23.47		584.07
USGS	3151000	5/9/2021	23.14		583.74
USGS	3151000	5/10/2021	24.57		585.17
USGS	3151000	5/11/2021	26.54		587.14
USGS	3151000	5/12/2021	25.17		585.77
USGS	3151000	5/13/2021	23.85		584.45
USGS	3151000	5/14/2021	23.42		584.02
USGS	3151000	5/15/2021	22.94		583.54
USGS	3151000	5/16/2021	22.34		582.94
USGS	3151000	5/17/2021	22.31		582.91
USGS	3151000	5/18/2021	21.95		582.55
USGS	3151000	5/19/2021	21.99		582.59
USGS	3151000	5/20/2021	21.64		582.24
USGS	3151000	5/21/2021	21.41		582.01
USGS	3151000	5/22/2021	21.86		582.46
USGS	3151000	5/23/2021	21.31		581.91
USGS	3151000	5/24/2021	21.80		582.40
USGS	3151000	5/25/2021	21.65		582.25
USGS	3151000	5/26/2021	21.44		582.04
USGS	3151000	5/27/2021	21.64		582.24
USGS	3151000	5/28/2021	21.50		582.10
USGS	3151000	5/29/2021	21.47		582.07
USGS	3151000	5/30/2021	21.75		582.35
USGS	3151000	5/31/2021	21.64		582.24
USGS	3151000	6/1/2021	21.45		582.05
USGS	3151000	6/2/2021	21.30		581.90
USGS	3151000	6/3/2021	21.57		582.17
USGS	3151000	6/4/2021	21.41		582.01
USGS	3151000	6/5/2021	21.37		581.97
USGS	3151000	6/6/2021	21.98		582.58
USGS	3151000	6/7/2021	21.56		582.16
USGS	3151000	6/8/2021	21.46		582.06
USGS	3151000	6/9/2021	21.66		582.26
USGS	3151000	6/10/2021	21.80		582.40
USGS	3151000	6/11/2021	22.01		582.61
USGS	3151000	6/12/2021	22.11		582.71
USGS	3151000	6/13/2021	22.01		582.61
USGS	3151000	6/14/2021	22.43		583.03
USGS	3151000	6/15/2021	21.96		582.56
USGS	3151000	6/16/2021	21.73		582.33
USGS	3151000	6/17/2021	21.59		582.19
USGS	3151000	6/18/2021	21.31		581.91

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	6/19/2021	21.33		581.93
USGS	3151000	6/20/2021	21.63		582.23
USGS	3151000	6/21/2021	21.80		582.40
USGS	3151000	6/22/2021	22.68		583.28
USGS	3151000	6/23/2021	22.40		583.00
USGS	3151000	6/24/2021	21.73		582.33
USGS	3151000	6/25/2021	21.42		582.02
USGS	3151000	6/26/2021	21.27		581.87
USGS	3151000	6/27/2021	21.38		581.98
USGS	3151000	6/28/2021	21.42		582.02
USGS	3151000	6/29/2021	21.49		582.09
USGS	3151000	6/30/2021	21.41		582.01
USGS	3151000	7/1/2021	21.63		582.23
USGS	3151000	7/2/2021	21.72		582.32
USGS	3151000	7/3/2021	21.67		582.27
USGS	3151000	7/4/2021	21.71		582.31
USGS	3151000	7/5/2021	21.38		581.98
USGS	3151000	7/6/2021	21.50		582.10
USGS	3151000	7/7/2021	21.49		582.09
USGS	3151000	7/8/2021	21.47		582.07
USGS	3151000	7/9/2021	21.64		582.24
USGS	3151000	7/10/2021	21.60		582.20
USGS	3151000	7/11/2021	21.47		582.07
USGS	3151000	7/12/2021	21.54		582.14
USGS	3151000	7/13/2021	21.74		582.34
USGS	3151000	7/14/2021	21.86		582.46
USGS	3151000	7/15/2021	21.78		582.38
USGS	3151000	7/16/2021	22.10		582.70
USGS	3151000	7/17/2021	21.99		582.59
USGS	3151000	7/18/2021	22.56		583.16
USGS	3151000	7/19/2021	23.17		583.77
USGS	3151000	7/20/2021	22.56		583.16
USGS	3151000	7/21/2021	22.35		582.95
USGS	3151000	7/22/2021	21.99		582.59
USGS	3151000	7/23/2021	21.89		582.49
USGS	3151000	7/24/2021	21.83		582.43
USGS	3151000	7/25/2021	21.58		582.18
USGS	3151000	7/26/2021	21.68		582.28
USGS	3151000	7/27/2021	21.51		582.11
USGS	3151000	7/28/2021	21.53		582.13
USGS	3151000	7/29/2021	21.57		582.17
USGS	3151000	7/30/2021	21.55		582.15
USGS	3151000	7/31/2021	21.33		581.93
USGS	3151000	8/1/2021	21.53		582.13
USGS	3151000	8/2/2021	21.64		582.24
USGS	3151000	8/3/2021	21.33		581.93
USGS	3151000	8/4/2021	21.31		581.91
USGS	3151000	8/5/2021	21.34		581.94
USGS	3151000	8/6/2021	21.64		582.24
USGS	3151000	8/7/2021	21.59		582.19
USGS	3151000	8/8/2021	21.24		581.84
USGS	3151000	8/9/2021	21.72		582.32
USGS	3151000	8/10/2021	21.33		581.93
USGS	3151000	8/11/2021	21.07		581.67
USGS	3151000	8/12/2021	21.63		582.23
USGS	3151000	8/13/2021	21.73		582.33
USGS	3151000	8/14/2021	21.73		582.33
USGS	3151000	8/15/2021	21.46		582.06
USGS	3151000	8/16/2021	21.69		582.29
USGS	3151000	8/17/2021	21.58		582.18
USGS	3151000	8/18/2021	21.97		582.57
USGS	3151000	8/19/2021	22.60		583.20
USGS	3151000	8/20/2021	21.92		582.52
USGS	3151000	8/21/2021	21.94		582.54

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	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	8/22/2021	21.83		582.43
USGS	3151000	8/23/2021	21.76		582.36
USGS	3151000	8/24/2021	21.44		582.04
USGS	3151000	8/25/2021	21.72		582.32
USGS	3151000	8/26/2021	21.55		582.15
USGS	3151000	8/27/2021	21.98		582.58
USGS	3151000	8/28/2021	21.76		582.36
USGS	3151000	8/29/2021	21.44		582.04
USGS	3151000	8/30/2021	21.53		582.13
USGS	3151000	8/31/2021	21.70		582.30
USGS	3151000	9/1/2021	22.77		583.37
USGS	3151000	9/2/2021	24.63		585.23
USGS	3151000	9/3/2021	23.03		583.63
USGS	3151000	9/4/2021	21.82		582.42
USGS	3151000	9/5/2021	22.13		582.73
USGS	3151000	9/6/2021	21.89		582.49
USGS	3151000	9/7/2021	21.68		582.28
USGS	3151000	9/8/2021	21.61		582.21
USGS	3151000	9/9/2021	21.41		582.01
USGS	3151000	9/10/2021	21.54		582.14
USGS	3151000	9/11/2021	21.69		582.29
USGS	3151000	9/12/2021	21.56		582.16
USGS	3151000	9/13/2021	21.31		581.91
USGS	3151000	9/14/2021	21.55		582.15
USGS	3151000	9/15/2021	21.32		581.92
USGS	3151000	9/16/2021	21.44		582.04
USGS	3151000	9/17/2021	21.50		582.10
USGS	3151000	9/18/2021	21.42		582.02
USGS	3151000	9/19/2021	21.56		582.16
USGS	3151000	9/20/2021	21.75		582.35
USGS	3151000	9/21/2021	21.30		581.90
USGS	3151000	9/22/2021	21.62		582.22
USGS	3151000	9/23/2021	21.72		582.32
USGS	3151000	9/24/2021	21.53		582.13
USGS	3151000	9/25/2021	21.67		582.27
USGS	3151000	9/26/2021	21.48		582.08
USGS	3151000	9/27/2021	21.54		582.14
USGS	3151000	9/28/2021	21.50		582.10
USGS	3151000	9/29/2021	21.50		582.10
USGS	3151000	9/30/2021	21.47		582.07
USGS	3151000	10/1/2021	21.56		582.16
USGS	3151000	10/2/2021	21.68		582.28
USGS	3151000	10/3/2021	21.67		582.27
USGS	3151000	10/4/2021	21.35		581.95
USGS	3151000	10/5/2021	21.50		582.10
USGS	3151000	10/6/2021	21.48		582.08
USGS	3151000	10/7/2021	21.31		581.91
USGS	3151000	10/8/2021	21.47		582.07
USGS	3151000	10/9/2021	21.42		582.02
USGS	3151000	10/10/2021	21.42		582.02
USGS	3151000	10/11/2021	21.39		581.99
USGS	3151000	10/12/2021	21.62		582.22
USGS	3151000	10/13/2021	21.32		581.92
USGS	3151000	10/14/2021	21.43		582.03
USGS	3151000	10/15/2021	21.57		582.17
USGS	3151000	10/16/2021	21.50		582.10
USGS	3151000	10/17/2021	21.74		582.34
USGS	3151000	10/18/2021	21.69		582.29
USGS	3151000	10/19/2021	21.53		582.13
USGS	3151000	10/20/2021	21.46		582.06
USGS	3151000	10/21/2021	21.49		582.09
USGS	3151000	10/22/2021	21.75		582.35
USGS	3151000	10/23/2021	21.55		582.15
USGS	3151000	10/24/2021	21.69		582.29

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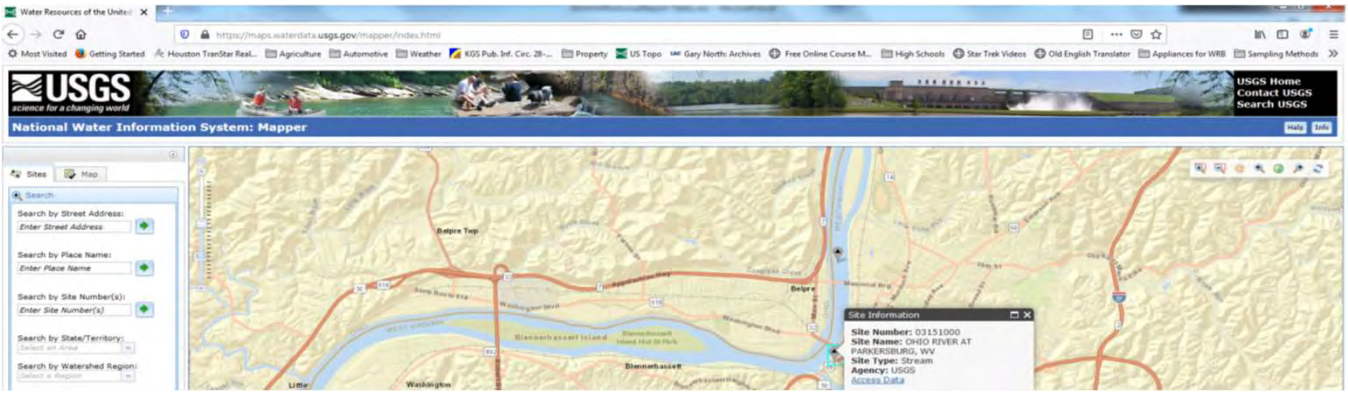
	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	10/25/2021	21.71		582.31
USGS	3151000	10/26/2021	21.76		582.36
USGS	3151000	10/27/2021	21.92		582.52
USGS	3151000	10/28/2021	21.85		582.45
USGS	3151000	10/29/2021	21.99		582.59
USGS	3151000	10/30/2021	22.54		583.14
USGS	3151000	10/31/2021	22.75		583.35
USGS	3151000	11/1/2021	22.82		583.42
USGS	3151000	11/2/2021	22.62		583.22
USGS	3151000	11/3/2021	22.50		583.10
USGS	3151000	11/4/2021	22.05		582.65
USGS	3151000	11/5/2021	21.84		582.44
USGS	3151000	11/6/2021	21.95		582.55
USGS	3151000	11/7/2021	21.68		582.28
USGS	3151000	11/8/2021	21.75		582.35
USGS	3151000	11/9/2021	21.67		582.27
USGS	3151000	11/10/2021	21.69		582.29
USGS	3151000	11/11/2021	21.47		582.07
USGS	3151000	11/12/2021	21.59		582.19
USGS	3151000	11/13/2021	21.48		582.08
USGS	3151000	11/14/2021	21.47		582.07
USGS	3151000	11/15/2021	21.68		582.28
USGS	3151000	11/16/2021	21.80		582.40
USGS	3151000	11/17/2021	21.72		582.32
USGS	3151000	11/18/2021	21.50		582.10
USGS	3151000	11/19/2021	21.52		582.12
USGS	3151000	11/20/2021	21.70		582.30
USGS	3151000	11/21/2021	21.90		582.50
USGS	3151000	11/22/2021	21.74		582.34
USGS	3151000	11/23/2021	21.69		582.29
USGS	3151000	11/24/2021	21.81		582.41
USGS	3151000	11/25/2021	21.51		582.11
USGS	3151000	11/26/2021	21.70		582.30
USGS	3151000	11/27/2021	21.51		582.11
USGS	3151000	11/28/2021	21.54		582.14
USGS	3151000	11/29/2021	21.50		582.10
USGS	3151000	11/30/2021	21.56		582.16
USGS	3151000	12/1/2021	21.56		582.16
USGS	3151000	12/2/2021	21.52		582.12
USGS	3151000	12/3/2021	21.66		582.26
USGS	3151000	12/4/2021	21.82		582.42
USGS	3151000	12/5/2021	21.84		582.44
USGS	3151000	12/6/2021	22.04		582.64
USGS	3151000	12/7/2021	22.20		582.80
USGS	3151000	12/8/2021	22.23		582.83
USGS	3151000	12/9/2021	22.23		582.83
USGS	3151000	12/10/2021	21.94		582.54
USGS	3151000	12/11/2021	22.05		582.65
USGS	3151000	12/12/2021	22.52		583.12
USGS	3151000	12/13/2021	22.50		583.10
USGS	3151000	12/14/2021	22.39		582.99
USGS	3151000	12/15/2021	22.09		582.69
USGS	3151000	12/16/2021	22.04		582.64
USGS	3151000	12/17/2021	21.57		582.17
USGS	3151000	12/18/2021	21.67		582.27
USGS	3151000	12/19/2021	21.71		582.31
USGS	3151000	12/20/2021	22.02		582.62
USGS	3151000	12/21/2021	22.03		582.63
USGS	3151000	12/22/2021	21.91		582.51
USGS	3151000	12/23/2021	21.76		582.36
USGS	3151000	12/24/2021	21.64		582.24
USGS	3151000	12/25/2021	21.73		582.33
USGS	3151000	12/26/2021	22.63		583.23
USGS	3151000	12/27/2021	22.55		583.15

Appendix D
Gaging Data from USGS Station at Parkersburg, WV
2021 Routine Monitoring and Corrective Measures Assessment Report
Chemours Washington Works

	Station Number	Date	Gage Height		Calculated Elevation (ft MSL)
USGS	3151000	12/28/2021	23.02		583.62
USGS	3151000	12/29/2021	23.49		584.09
USGS	3151000	12/30/2021	24.53		585.13
USGS	3151000	12/31/2021	24.02		584.62



2022 Routine Monitoring and Corrective Measures Assessment Report

Chemours Washington Works Plant
Washington, West Virginia

Submitted on behalf of:
The Chemours Company FC, LLC

Submitted by:
AECOM
248 Chapman Road
Suite 101
Newark, DE 19702

Project Number: 60697702/60697686
Date: June 5, 2023

Table 5-2
Groundwater Measurements
2022 Routine Monitoring and Corrective Measures Assessment Report
Chemours Washington Works
Washington, West Virginia

Well ID	Aquifer Monitored	Measuring Point Elevation (Ft)	Depth to Groundwater Measurements	
			1H2022	2H2022
AA05-MW01	alluvial aquifer	633.32	57.61	58.68
AB07-MW02	alluvial aquifer	633.02	57.25	58.80
AE11-MW01	alluvial aquifer	628.94	52.02	53.90
AJ06-MW01	alluvial aquifer	635.09	57.56	59.99
AJ06-MW02	bedrock aquifer	635.55	58.03	60.50
AL10-MW01	alluvial aquifer	631.61	54.63	57.75
AM07-PW01	alluvial aquifer	634.53	-	-
AO08-MW01	alluvial aquifer	636.02	60.68	64.43
AO08-PW01	alluvial aquifer	633.11	70.62	79.24
AQ09-MW01	alluvial aquifer	632.89	56.27	59.57
AQ09-PW01	alluvial aquifer	634.46	58.92	76.19
AR09-MW01	alluvial aquifer	635.27	57.21	61.95
AT10-PW01	alluvial aquifer	634.53	69.70	75.74
AV11-PW01	alluvial aquifer	633.58	-	-
AX12-MW01	alluvial aquifer	635.23	53.32	59.95
AX13-PW01	alluvial aquifer	630.85	52.19	57.67
AZ13-PW01	alluvial aquifer	628.25	43.37	67.86
D08-MW01	alluvial aquifer	600.67	20.82	21.36
E13-MW01	alluvial aquifer	625.47	45.85	46.53
F06-MW01	alluvial aquifer	601.14	22.11	23.09
G10-MW01	alluvial aquifer	631.40	57.43	57.97
G17-MW01	alluvial aquifer	632.81	50.69	50.81
J08-MW01	alluvial aquifer	630.21	53.14	53.62
K14-MW01	alluvial aquifer	627.34	49.31	49.92
K16-PW01	alluvial aquifer	621.74 *	45.77	46.43
L06-MW01**	alluvial aquifer	629.33	53.40	53.61
M16-MW01	alluvial aquifer	627.14	49.70	49.97
N05-MW01	alluvial aquifer	633.17	57.67	57.98
N13-MW01	alluvial aquifer	625.87	48.98	49.36
P06-MW02	alluvial aquifer	630.82	55.92	56.44
P08-MW01	alluvial aquifer	629.29	54.47	54.93
R04-MW02	perched water table	594.92	15.55	16.94
S05-MW02	alluvial aquifer	630.64	57.73	58.20
T13-MW01	alluvial aquifer	632.69	56.15	57.58
U04-MW01	perched water table	595.43	8.59	10.99
U16-MW01	alluvial aquifer	638.23	60.56	61.24
V09-MW01	alluvial aquifer	628.50	54.05	54.64
Y05-MW01	perched water table	631.16	56.79	58.30
Y14-MW01	alluvial aquifer	642.25	66.09	67.51
Y14-MW02	bedrock aquifer	643.12	69.49	70.33
Z07-MW01	alluvial aquifer	632.98	58.02	59.48

Ft = Feet

* for K16-PW01: 621.74 = top of concrete floor. 623.24 = elevation of top of concrete pump base.

** This well can only be measured if the Teflon Process Area is not in operation due to safety concerns.

- = not measured

Table 5-3
Groundwater Elevation Data
2022 Routine Monitoring and Corrective Measures Assessment Report
Chemours Washington Works
Washington, West Virginia

Well ID	Aquifer Monitored	Measuring Point Elevation (Ft)	Groundwater Elevation (ft MSL)	
			1H2022	2H2022
AA05-MW01	alluvial aquifer	633.32	575.71	574.64
AB07-MW02	alluvial aquifer	633.02	575.77	574.22
AE11-MW01	alluvial aquifer	628.94	576.92	575.04
AJ06-MW01	alluvial aquifer	635.09	577.53	575.10
AJ06-MW02	bedrock aquifer	635.55	577.52	575.05
AL10-MW01	alluvial aquifer	631.61	576.98	573.86
AM07-PW01	alluvial aquifer	634.53	-	-
AO08-MW01	alluvial aquifer	636.02	575.34	571.59
AO08-PW01	alluvial aquifer	633.11	562.49	553.87
AQ09-MW01	alluvial aquifer	632.89	576.62	573.32
AQ09-PW01	alluvial aquifer	634.46	575.54	558.27
AR09-MW01	alluvial aquifer	635.27	578.06	573.32
AT10-PW01	alluvial aquifer	634.53	564.83	558.79
AV11-PW01	alluvial aquifer	633.58	-	-
AX12-MW01	alluvial aquifer	635.23	581.91	575.28
AX13-PW01	alluvial aquifer	630.85	578.66	573.18
AZ13-PW01	alluvial aquifer	628.25	584.88	560.39
D08-MW01	alluvial aquifer	600.67	579.85	579.31
E13-MW01	alluvial aquifer	625.47	579.62	578.94
F06-MW01	alluvial aquifer	601.14	579.03	578.05
G10-MW01	alluvial aquifer	631.40	573.97	573.43
G17-MW01	alluvial aquifer	632.81	582.12	582.00
J08-MW01	alluvial aquifer	630.21	577.07	576.59
K14-MW01	alluvial aquifer	627.34	578.03	577.42
K16-PW01	alluvial aquifer	623.24	577.47	576.81
L06-MW01**	alluvial aquifer	629.33	575.93	575.72
M16-MW01	alluvial aquifer	627.14	577.44	577.17
N05-MW01	alluvial aquifer	633.17	575.50	575.19
N13-MW01	alluvial aquifer	625.87	576.89	576.51
P06-MW02	alluvial aquifer	630.82	574.90	574.38
P08-MW01	alluvial aquifer	629.29	574.82	574.36
R04-MW02	perched water table	594.92	579.37	577.98
S05-MW02	alluvial aquifer	630.64	572.91	572.44
T13-MW01	alluvial aquifer	632.69	576.54	575.11
U04-MW01	perched water table	595.43	586.84	584.44
U16-MW01	alluvial aquifer	638.23	577.67	576.99
V09-MW01	alluvial aquifer	628.50	574.45	573.86
Y05-MW01	perched water table	631.16	574.37	572.86
Y14-MW01	alluvial aquifer	642.25	576.16	574.74
Y14-MW02	bedrock aquifer	643.12	573.63	572.79
Z07-MW01	alluvial aquifer	632.98	574.96	573.50
RANNEY WELL	alluvial aquifer	unavailable	-	-

ft msl = feet above mean sea level

- = not measured

Appendix D

Gaging Data from USGS Station at Parkersburg, West Virginia

Appendix D
Gaging Data from USGS Station at Parkersburg, WV
2022 Routine Monitoring and Corrective Measures Assessment Report
Chemours Washington Works

---------- WARNING ----------
Some of the data that you have obtained from this U.S. Geological Survey database
may not have received Director's approval. Any such data values are qualified
as provisional and are subject to revision. Provisional data are released on the
condition that neither the USGS nor the United States Government may be held liable
for any damages resulting from its use.

Contact: gs-w_support_nwisweb@usgs.gov
retrieved: 2023-03-13 12:52:45 -04:00 (nadww01)
#
Data for the following 1 site(s) are contained in this file
USGS 03151000 OHIO RIVER AT PARKERSBURG, WV

#
TS_ID - An internal number representing a time series.
#
Data provided for site 03151000
TS_ID Parameter Description
160616 00065 Gage height, feet
#
#

from:
https://nwis.waterservices.usgs.gov/nwis/iv/?sites=03151000&parameterCd=00065&startDT=2022-01-01T00:00:00.000-05:00&endDT=2022-12-31T23:59:59.999-05:00&siteStatus=all&format=rdb
Ohio River Data from USGS Gage Station at Parkersburg, WV

DESCRIPTION:
Latitude 39°16'05", Longitude 81°33'50" NAD27
Wood County, West Virginia, Hydrologic Unit 05030202
Drainage area: 35,650 square miles
Contributing drainage area: 35,650.00 square miles,
Datum of gage: 560.60 feet above NAVD88.

agency_cd site_no datetime 159627_00065_00003 159627_00065_00003_cd

	Station Number	Date	Gage Height	Acceptable/ Provisional	Calculated Elevation (ft MSL)
USGS	3151000	1/1/2022	23.96	A	584.56
USGS	3151000	1/2/2022	27.90	A	588.50
USGS	3151000	1/3/2022	29.03	A	589.63
USGS	3151000	1/4/2022	27.08	A	587.68
USGS	3151000	1/5/2022	24.82	A	585.42
USGS	3151000	1/6/2022	23.98	A	584.58
USGS	3151000	1/7/2022	23.21	A	583.81
USGS	3151000	1/8/2022	22.59	A	583.19
USGS	3151000	1/9/2022	22.84	A	583.44
USGS	3151000	1/10/2022	24.10	A	584.70
USGS	3151000	1/11/2022	24.60	A	585.20
USGS	3151000	1/12/2022	23.58	A	584.18
USGS	3151000	1/13/2022	22.85	A	583.45
USGS	3151000	1/14/2022	22.70	A	583.30
USGS	3151000	1/15/2022	22.38	A	582.98
USGS	3151000	1/16/2022	22.03	A	582.63
USGS	3151000	1/17/2022	21.74	A	582.34
USGS	3151000	1/18/2022	22.02	A	582.62
USGS	3151000	1/19/2022	21.97	A	582.57
USGS	3151000	1/20/2022	22.08	A	582.68
USGS	3151000	1/21/2022	22.29	A	582.89
USGS	3151000	1/22/2022	21.69	A	582.29
USGS	3151000	1/23/2022	21.74	A	582.34
USGS	3151000	1/24/2022	21.74	A	582.34
USGS	3151000	1/25/2022	21.70	A	582.30
USGS	3151000	1/26/2022	21.71	A	582.31
USGS	3151000	1/27/2022	21.54	A	582.14
USGS	3151000	1/28/2022	21.93	A	582.53
USGS	3151000	1/29/2022	21.70	A	582.30
USGS	3151000	1/30/2022	21.37	A	581.97
USGS	3151000	1/31/2022	21.49	A	582.09
USGS	3151000	2/1/2022	21.76	A	582.36
USGS	3151000	2/2/2022	21.61	A	582.21
USGS	3151000	2/3/2022	22.85	A	583.45
USGS	3151000	2/4/2022	29.33	A	589.93
USGS	3151000	2/5/2022	30.03	A	590.63
USGS	3151000	2/6/2022	26.43	A	587.03

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Gaging Data from USGS Station at Parkersburg, WV
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	Station Number	Date	Gage Height	Acceptable/ Provisional	Calculated Elevation (ft MSL)
USGS	3151000	2/7/2022	23.32	A	583.92
USGS	3151000	2/8/2022	23.15	A	583.75
USGS	3151000	2/9/2022	22.77	A	583.37
USGS	3151000	2/10/2022	22.72	A	583.32
USGS	3151000	2/11/2022	23.02	A	583.62
USGS	3151000	2/12/2022	23.51	A	584.11
USGS	3151000	2/13/2022	23.71	A	584.31
USGS	3151000	2/14/2022	23.41	A	584.01
USGS	3151000	2/15/2022	22.75	A	583.35
USGS	3151000	2/16/2022	22.35	A	582.95
USGS	3151000	2/17/2022	22.67	A	583.27
USGS	3151000	2/18/2022	29.75	A	590.35
USGS	3151000	2/19/2022	34.23	A	594.83
USGS	3151000	2/20/2022	32.27	A	592.87
USGS	3151000	2/21/2022	26.11	A	586.71
USGS	3151000	2/22/2022	25.43	A	586.03
USGS	3151000	2/23/2022	26.85	A	587.45
USGS	3151000	2/24/2022	27.30	A	587.90
USGS	3151000	2/25/2022	29.25	A	589.85
USGS	3151000	2/26/2022	31.91	A	592.51
USGS	3151000	2/27/2022	30.52	A	591.12
USGS	3151000	2/28/2022	27.75	A	588.35
USGS	3151000	3/1/2022	26.37	A	586.97
USGS	3151000	3/2/2022	25.51	A	586.11
USGS	3151000	3/3/2022	25.01	A	585.61
USGS	3151000	3/4/2022	24.80	A	585.40
USGS	3151000	3/5/2022	24.50	A	585.10
USGS	3151000	3/6/2022	23.95	A	584.55
USGS	3151000	3/7/2022	23.96	A	584.56
USGS	3151000	3/8/2022	26.42	A	587.02
USGS	3151000	3/9/2022	27.49	A	588.09
USGS	3151000	3/10/2022	26.56	A	**587.16**
USGS	3151000	3/11/2022	25.50	A	586.10
USGS	3151000	3/12/2022	24.83	A	585.43
USGS	3151000	3/13/2022	24.32	A	584.92
USGS	3151000	3/14/2022	24.00	A	584.60
USGS	3151000	3/15/2022	24.14	A	584.74
USGS	3151000	3/16/2022	24.37	A	584.97
USGS	3151000	3/17/2022	23.55	A	584.15
USGS	3151000	3/18/2022	23.01	A	583.61
USGS	3151000	3/19/2022	22.72	A	583.32
USGS	3151000	3/20/2022	22.68	A	583.28
USGS	3151000	3/21/2022	22.33	A	582.93
USGS	3151000	3/22/2022	22.57	A	583.17
USGS	3151000	3/23/2022	22.18	A	582.78
USGS	3151000	3/24/2022	22.76	A	583.36
USGS	3151000	3/25/2022	22.91	A	583.51
USGS	3151000	3/26/2022	22.77	A	583.37
USGS	3151000	3/27/2022	22.41	A	583.01
USGS	3151000	3/28/2022	22.58	A	583.18
USGS	3151000	3/29/2022	22.40	A	583.00
USGS	3151000	3/30/2022	22.22	A	582.82
USGS	3151000	3/31/2022	22.01	A	582.61
USGS	3151000	4/1/2022	21.87	A	582.47
USGS	3151000	4/2/2022	22.11	A	582.71
USGS	3151000	4/3/2022	22.31	A	582.91
USGS	3151000	4/4/2022	21.96	A	582.56
USGS	3151000	4/5/2022	22.16	A	582.76
USGS	3151000	4/6/2022	22.67	A	583.27

Appendix D
Gaging Data from USGS Station at Parkersburg, WV
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Chemours Washington Works

	Station Number	Date	Gage Height	Acceptable/ Provisional	Calculated Elevation (ft MSL)
USGS	3151000	4/7/2022	23.79	A	584.39
USGS	3151000	4/8/2022	24.78	A	585.38
USGS	3151000	4/9/2022	24.98	A	585.58
USGS	3151000	4/10/2022	24.56	A	585.16
USGS	3151000	4/12/2022	23.76	A	584.36
USGS	3151000	4/13/2022	23.84	A	584.44
USGS	3151000	4/14/2022	24.01	A	584.61
USGS	3151000	4/15/2022	23.64	A	584.24
USGS	3151000	4/16/2022	23.05	A	583.65
USGS	3151000	4/17/2022	22.66	A	583.26
USGS	3151000	4/18/2022	22.80	A	583.40
USGS	3151000	4/19/2022	23.65	A	584.25
USGS	3151000	4/20/2022	23.94	A	584.54
USGS	3151000	4/21/2022	23.29	A	583.89
USGS	3151000	4/22/2022	23.29	A	583.89
USGS	3151000	4/23/2022	22.87	A	583.47
USGS	3151000	4/24/2022	22.64	A	583.24
USGS	3151000	4/25/2022	22.55	A	583.15
USGS	3151000	4/26/2022	22.12	A	582.72
USGS	3151000	4/27/2022	22.46	A	583.06
USGS	3151000	4/28/2022	22.47	A	583.07
USGS	3151000	4/29/2022	22.20	A	582.80
USGS	3151000	4/30/2022	22.14	A	582.74
USGS	3151000	5/1/2022	21.99	A	582.59
USGS	3151000	5/2/2022	22.23	A	582.83
USGS	3151000	5/3/2022	22.08	A	582.68
USGS	3151000	5/4/2022	22.73	A	583.33
USGS	3151000	5/5/2022	23.43	A	584.03
USGS	3151000	5/6/2022	22.90	A	583.50
USGS	3151000	5/7/2022	28.42	A	589.02
USGS	3151000	5/8/2022	32.69	A	593.29
USGS	3151000	5/9/2022	30.63	A	591.23
USGS	3151000	5/10/2022	26.70	A	587.30
USGS	3151000	5/11/2022	25.34	A	585.94
USGS	3151000	5/12/2022	24.38	A	584.98
USGS	3151000	5/13/2022	23.93	A	584.53
USGS	3151000	5/14/2022	23.02	A	583.62
USGS	3151000	5/15/2022	22.64	A	583.24
USGS	3151000	5/16/2022	22.05	A	582.65
USGS	3151000	5/17/2022	21.87	A	582.47
USGS	3151000	5/18/2022	21.83	A	582.43
USGS	3151000	5/19/2022	21.71	A	582.31
USGS	3151000	5/20/2022	21.80	A	582.40
USGS	3151000	5/21/2022	21.62	A	582.22
USGS	3151000	5/22/2022	21.79	A	582.39
USGS	3151000	5/23/2022	21.58	A	582.18
USGS	3151000	5/24/2022	21.67	A	582.27
USGS	3151000	5/25/2022	21.91	A	582.51
USGS	3151000	5/26/2022	21.45	A	582.05
USGS	3151000	5/27/2022	21.58	A	582.18
USGS	3151000	5/28/2022	22.33	A	582.93
USGS	3151000	5/29/2022	22.10	A	582.70
USGS	3151000	5/30/2022	21.92	A	582.52
USGS	3151000	5/31/2022	21.79	A	582.39
USGS	3151000	6/1/2022	21.54	A	582.14
USGS	3151000	6/2/2022	21.61	A	582.21
USGS	3151000	6/3/2022	21.99	A	582.59
USGS	3151000	6/4/2022	21.61	A	582.21
USGS	3151000	6/5/2022	21.34	A	581.94

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	Station Number	Date	Gage Height	Acceptable/ Provisional	Calculated Elevation (ft MSL)
USGS	3151000	6/6/2022	21.71	A	582.31
USGS	3151000	6/7/2022	21.42	A	582.02
USGS	3151000	6/8/2022	21.83	A	582.43
USGS	3151000	6/9/2022	22.29	A	582.89
USGS	3151000	6/10/2022	22.06	A	582.66
USGS	3151000	6/11/2022	21.60	A	582.20
USGS	3151000	6/12/2022	21.70	A	582.30
USGS	3151000	6/13/2022	21.92	A	582.52
USGS	3151000	6/14/2022	21.95	A	582.55
USGS	3151000	6/15/2022	22.21	A	582.81
USGS	3151000	6/16/2022	21.96	A	582.56
USGS	3151000	6/17/2022	22.31	A	582.91
USGS	3151000	6/18/2022	21.65	A	582.25
USGS	3151000	6/19/2022	21.57	A	582.17
USGS	3151000	6/20/2022	21.80	A	582.40
USGS	3151000	6/21/2022	21.29	A	581.89
USGS	3151000	6/22/2022	21.68	A	582.28
USGS	3151000	6/23/2022	21.30	A	581.90
USGS	3151000	6/24/2022	21.29	A	581.89
USGS	3151000	6/25/2022	21.77	A	582.37
USGS	3151000	6/26/2022	21.33	A	581.93
USGS	3151000	6/27/2022	21.68	A	582.28
USGS	3151000	6/28/2022	21.23	A	581.83
USGS	3151000	6/29/2022	21.37	A	581.97
USGS	3151000	6/30/2022	21.33	A	581.93
USGS	3151000	7/1/2022	21.60	A	582.20
USGS	3151000	7/2/2022	21.70	A	582.30
USGS	3151000	7/3/2022	21.49	A	582.09
USGS	3151000	7/4/2022	21.19	A	581.79
USGS	3151000	7/5/2022	21.21	A	581.81
USGS	3151000	7/6/2022	21.53	A	582.13
USGS	3151000	7/7/2022	21.63	A	582.23
USGS	3151000	7/8/2022	21.34	A	581.94
USGS	3151000	7/9/2022	21.13	A	581.73
USGS	3151000	7/10/2022	21.45	A	582.05
USGS	3151000	7/11/2022	21.39	A	581.99
USGS	3151000	7/12/2022	21.31	A	581.91
USGS	3151000	7/13/2022	21.39	A	581.99
USGS	3151000	7/14/2022	21.53	A	582.13
USGS	3151000	7/15/2022	21.48	A	582.08
USGS	3151000	7/16/2022	21.28	A	581.88
USGS	3151000	7/17/2022	21.54	A	582.14
USGS	3151000	7/18/2022	21.52	A	582.12
USGS	3151000	7/19/2022	21.57	A	582.17
USGS	3151000	7/20/2022	21.47	A	582.07
USGS	3151000	7/21/2022	21.34	A	581.94
USGS	3151000	7/22/2022	21.70	A	582.30
USGS	3151000	7/23/2022	21.40	A	582.00
USGS	3151000	7/24/2022	21.41	A	582.01
USGS	3151000	7/25/2022	21.56	A	582.16
USGS	3151000	7/26/2022	21.68	A	582.28
USGS	3151000	7/27/2022	21.34	A	581.94
USGS	3151000	7/28/2022	21.69	A	582.29
USGS	3151000	7/29/2022	21.42	A	582.02
USGS	3151000	7/30/2022	21.61	A	582.21
USGS	3151000	7/31/2022	21.38	A	581.98
USGS	3151000	8/1/2022	21.30	A	581.90
USGS	3151000	8/2/2022	21.55	A	582.15
USGS	3151000	8/3/2022	21.76	A	582.36

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	Station Number	Date	Gage Height	Acceptable/ Provisional	Calculated Elevation (ft MSL)
USGS	3151000	8/4/2022	21.59	A	582.19
USGS	3151000	8/5/2022	21.54	A	582.14
USGS	3151000	8/6/2022	21.88	A	582.48
USGS	3151000	8/7/2022	21.72	A	582.32
USGS	3151000	8/8/2022	21.67	A	582.27
USGS	3151000	8/9/2022	21.34	A	581.94
USGS	3151000	8/10/2022	21.70	A	582.30
USGS	3151000	8/11/2022	21.85	A	582.45
USGS	3151000	8/12/2022	21.73	A	582.33
USGS	3151000	8/13/2022	21.32	A	581.92
USGS	3151000	8/14/2022	21.47	A	582.07
USGS	3151000	8/15/2022	21.24	A	581.84
USGS	3151000	8/16/2022	21.52	A	582.12
USGS	3151000	8/17/2022	21.62	A	582.22
USGS	3151000	8/18/2022	21.47	A	582.07
USGS	3151000	8/19/2022	21.42	A	582.02
USGS	3151000	8/20/2022	21.32	A	581.92
USGS	3151000	8/21/2022	21.36	A	581.96
USGS	3151000	8/22/2022	21.92	A	582.52
USGS	3151000	8/23/2022	21.62	A	582.22
USGS	3151000	8/24/2022	21.36	A	581.96
USGS	3151000	8/25/2022	21.68	A	582.28
USGS	3151000	8/26/2022	21.68	A	582.28
USGS	3151000	8/27/2022	21.60	A	582.20
USGS	3151000	8/28/2022	21.74	A	582.34
USGS	3151000	8/29/2022	21.42	A	582.02
USGS	3151000	8/30/2022	21.55	A	582.15
USGS	3151000	8/31/2022	21.55	A	582.15
USGS	3151000	9/1/2022	21.64	A	582.24
USGS	3151000	9/2/2022	21.48	A	582.08
USGS	3151000	9/3/2022	21.24	A	581.84
USGS	3151000	9/4/2022	21.34	A	581.94
USGS	3151000	9/5/2022	21.64	A	582.24
USGS	3151000	9/6/2022	21.75	A	582.35
USGS	3151000	9/7/2022	21.93	A	582.53
USGS	3151000	9/8/2022	21.59	A	582.19
USGS	3151000	9/9/2022	21.68	A	582.28
USGS	3151000	9/10/2022	21.57	A	582.17
USGS	3151000	9/11/2022	21.77	A	582.37
USGS	3151000	9/12/2022	21.55	A	582.15
USGS	3151000	9/13/2022	21.58	A	582.18
USGS	3151000	9/14/2022	21.70	A	582.30
USGS	3151000	9/15/2022	21.63	A	582.23
USGS	3151000	9/16/2022	21.75	A	582.35
USGS	3151000	9/17/2022	21.42	A	582.02
USGS	3151000	9/18/2022	21.53	A	582.13
USGS	3151000	9/19/2022	21.55	A	582.15
USGS	3151000	9/20/2022	21.44	A	582.04
USGS	3151000	9/21/2022	21.47	A	582.07
USGS	3151000	9/22/2022	21.59	A	582.19
USGS	3151000	9/23/2022	21.48	A	582.08
USGS	3151000	9/24/2022	21.33	A	581.93
USGS	3151000	9/25/2022	21.41	A	582.01
USGS	3151000	9/26/2022	21.68	A	582.28
USGS	3151000	9/27/2022	21.40	A	582.00
USGS	3151000	9/28/2022	21.33	A	581.93
USGS	3151000	9/29/2022	21.72	A	582.32
USGS	3151000	9/30/2022	21.65	A	582.25
USGS	3151000	10/1/2022	21.45	A	582.05

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USGS	3151000	10/2/2022	21.65	A	582.25
USGS	3151000	10/3/2022	21.90	A	582.50
USGS	3151000	10/4/2022	21.62	A	582.22
USGS	3151000	10/5/2022	21.42	A	582.02
USGS	3151000	10/6/2022	21.74	A	582.34
USGS	3151000	10/7/2022	21.72	A	582.32
USGS	3151000	10/8/2022	21.63	A	582.23
USGS	3151000	10/9/2022	21.50	A	582.10
USGS	3151000	10/10/2022	21.71	A	582.31
USGS	3151000	10/11/2022	21.56	A	582.16
USGS	3151000	10/12/2022	21.64	A	582.24
USGS	3151000	10/13/2022	21.44	A	582.04
USGS	3151000	10/14/2022	21.34	A	581.94
USGS	3151000	10/15/2022	21.51	A	582.11
USGS	3151000	10/16/2022	21.58	A	582.18
USGS	3151000	10/17/2022	21.58	A	**582.18**
USGS	3151000	10/18/2022	21.67	A	582.27
USGS	3151000	10/19/2022	21.39	A	581.99
USGS	3151000	10/20/2022	21.36	A	581.96
USGS	3151000	10/21/2022	21.31	A	581.91
USGS	3151000	10/22/2022	21.35	A	581.95
USGS	3151000	10/23/2022	21.75	A	582.35
USGS	3151000	10/24/2022	21.42	A	582.02
USGS	3151000	10/25/2022	21.40	A	582.00
USGS	3151000	10/26/2022	21.22	A	581.82
USGS	3151000	10/27/2022	21.55	A	582.15
USGS	3151000	10/28/2022	21.26	A	581.86
USGS	3151000	10/29/2022	21.28	A	581.88
USGS	3151000	10/30/2022	21.56	A	582.16
USGS	3151000	10/31/2022	21.61	A	582.21
USGS	3151000	11/1/2022	21.24	A	581.84
USGS	3151000	11/2/2022	21.59	A	582.19
USGS	3151000	11/3/2022	21.49	A	582.09
USGS	3151000	11/4/2022	21.47	A	582.07
USGS	3151000	11/5/2022	21.62	A	582.22
USGS	3151000	11/6/2022	21.55	A	582.15
USGS	3151000	11/7/2022	21.30	A	581.90
USGS	3151000	11/8/2022	21.63	P	582.23
USGS	3151000	11/9/2022	21.55	P	582.15
USGS	3151000	11/10/2022	21.55	P	582.15
USGS	3151000	11/11/2022	21.67	P	582.27
USGS	3151000	11/12/2022	23.42	P	584.02
USGS	3151000	11/13/2022	23.37	P	583.97
USGS	3151000	11/14/2022	23.40	P	584.00
USGS	3151000	11/15/2022	22.46	P	583.06
USGS	3151000	11/16/2022	22.59	P	583.19
USGS	3151000	11/17/2022	22.38	P	582.98
USGS	3151000	11/18/2022	22.50	P	583.10
USGS	3151000	11/19/2022	22.22	P	582.82
USGS	3151000	11/20/2022	21.87	P	582.47
USGS	3151000	11/21/2022	21.85	P	582.45
USGS	3151000	11/22/2022	21.89	P	582.49
USGS	3151000	11/23/2022	21.89	P	582.49
USGS	3151000	11/24/2022	21.57	P	582.17
USGS	3151000	11/25/2022	21.67	P	582.27
USGS	3151000	11/26/2022	21.39	P	581.99
USGS	3151000	11/27/2022	21.62	P	582.22
USGS	3151000	11/28/2022	21.75	P	582.35
USGS	3151000	11/29/2022	21.91	P	582.51

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USGS	3151000	11/30/2022	22.22	P	582.82
USGS	3151000	12/2/2022	22.73	P	583.33
USGS	3151000	12/3/2022	22.41	P	583.01
USGS	3151000	12/4/2022	22.09	P	582.69
USGS	3151000	12/5/2022	22.15	P	582.75
USGS	3151000	12/6/2022	22.51	P	583.11
USGS	3151000	12/7/2022	22.64	P	583.24
USGS	3151000	12/8/2022	22.65	P	583.25
USGS	3151000	12/9/2022	22.28	P	582.88
USGS	3151000	12/10/2022	22.24	P	582.84
USGS	3151000	12/11/2022	22.00	P	582.60
USGS	3151000	12/12/2022	21.84	P	582.44
USGS	3151000	12/13/2022	21.75	P	582.35
USGS	3151000	12/14/2022	21.70	P	582.30
USGS	3151000	12/15/2022	21.72	P	582.32
USGS	3151000	12/16/2022	22.28	P	582.88
USGS	3151000	12/17/2022	22.42	P	583.02
USGS	3151000	12/18/2022	22.15	P	582.75
USGS	3151000	12/19/2022	21.72	P	582.32
USGS	3151000	12/20/2022	21.74	P	582.34
USGS	3151000	12/21/2022	21.92	P	582.52
USGS	3151000	12/22/2022	21.57	P	582.17
USGS	3151000	12/23/2022	21.71	P	582.31
USGS	3151000	12/24/2022	21.93	P	582.53
USGS	3151000	12/25/2022	21.82	P	582.42
USGS	3151000	12/26/2022	21.67	P	582.27
USGS	3151000	12/27/2022	21.82	P	582.42
USGS	3151000	12/28/2022	21.71	P	582.31
USGS	3151000	12/29/2022	21.83	P	582.43
USGS	3151000	12/30/2022	21.57	P	582.17
USGS	3151000	12/31/2022	21.45	P	582.05

Larger bold font entries indicate 3/10 and 10/17 data, which are used as the Ohio River stage for the 1H and 2H events.

Appendix D

Revised Groundwater Flow Model (DuPont, 2003) and Geohydrology and Simulation of Ground-Water Flow in Ohio River Alluvial Aquifers Near Point Pleasant, Lubeck, Parkersburg, Vienna, Moundsville, and Glendale, West Virginia (USGS Kozar and McCoy 2004 Publication)

REVISED GROUNDWATER FLOW MODEL
DUPONT WASHINGTON WORKS
WASHINGTON, WV

Date: January 2003

Project No.: 18983635
7423





CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Diamond

Barley Mill Plaza, Building 27
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1.0 INTRODUCTION

A steady-state groundwater flow model was developed for the DuPont Washington Works facility (the site) in 1999. This model, which was completed as part of the RFI, was documented in the RCRA Facility Investigation Report (DuPont, 1999). The original groundwater flow model has been revised and expanded.

The primary objectives of the modeling work documented in this report included:

- Addressing EPA/ACOE comments on the previous groundwater flow model,
- Evaluating groundwater migration pathways at the site under current site and regional pumping conditions, and
- Predicting future groundwater migration pathways under various pumping scenarios.

Feedback was sought from experts with the U.S. Environmental Protection Agency (EPA), U.S. Army Corps of Engineers (ACOE), and U.S. Geological Survey during the redevelopment of the model. Meetings were held with these experts at key stages in model development including completion of the conceptual geologic model, following preliminary model calibration, and then after final model calibration in order to give the experts the opportunity to review the work completed at each stage and to solicit feedback.

The purpose of this report is to document the revised groundwater flow model for the DuPont Washington Works facility. The following sections describe the site setting, geology, and hydrogeology, and document the model set-up, calibration, and results.

2.0 SITE SETTING, GEOLOGY, AND HYDROGEOLOGY

2.1 Site Setting

The site is located on Washington Bottom in Washington, West Virginia. The location of the site and several surrounding properties are shown on Figure 1. The site, which is bounded on the north by the Ohio River, lies at the western (down-stream) end of Blennerhassett Island approximately between river miles 189 and 191. The DuPont site shares its southwestern boundary with another manufacturing facility operated by General Electric (GE).

2.2 Geology

The site lies within the Ohio River Valley and rests on Quaternary alluvial sediments that overly the Permian-aged Dunkard Group. The two predominant facies of the Ohio River alluvium that have been identified include coarse-grained Ohio River Alluvium (Pleistocene-aged glacial outwash deposits) and fine-grained Ohio River Alluvium (Holocene overbank deposits (Simard, 1989). The Pleistocene deposits consist primarily of coarse-grained sand and gravel while the Holocene deposits consist primary of interbedded and laminated silt, clay and fine-grained sand. Simard also identified three minor facies of the Ohio River Alluvium including tributary deposits (silt, sand and gravel), colluvial deposits (coarse sand, gravel, cobbles and boulders) and eolian sand and silt deposits. The Dunkard Group (bedrock) consists primarily of red and varicolored sandy shale; gray, green and brown sandstone; gray and light-gray siltstone; and minor beds of coal, claystone, black carbonaceous shale and limestone.

The facies of the Ohio River Alluvium formed in response to the glacial advances and retreats of the pre-, early- and late-Wisconsinan and were deposited as successive phases of aggradation and degradation of river valley alluvial materials. The coarse-grained Pleistocene alluvium was deposited as glacial outwash during the primary valley aggradation event following the glacial scouring of the valley into the bedrock floor. During the subsequent degredation and aggradation cycles of the Pleistocene, the glacial outwash sediments were partially removed, re-worked and then redeposited to a lower elevation than the previous cycle, thus forming a terrace. This process formed a series of Pleistocene-aged terrace surfaces within the Ohio River Valley. These surfaces were designated (youngest to oldest) as S4, S5, and S6 by Simard. With each subsequent degredation/aggradation cycle, additional fines were incorporated into the Pleistocene deposits due to continual influx of finer-grained fluvial sediments from tributaries of the Ohio River. As a result, the Pleistocene deposits become more highly re-worked and progressively finer-grained toward the center of the river valley, particularly in locations down-stream of significant tributaries (Simard, 1989). The total thickness of Pleistocene sediments at Washington Bottom ranges from about 80 feet beneath the highest Pleistocene terrace surfaces to about 15 feet beneath the current channel of the Ohio River.

The Pleistocene alluvial deposits are overlain by the finer-grained Holocene sediments. The silts, clays, and fine sands were deposited on the surface of the Pleistocene terraces as well as on a series of more recent floodplains, which formed in the center of the Ohio River Valley during the Holocene. The thickness of the Holocene sediments typically ranges from 5 to 15 feet over the Pleistocene terrace surfaces and 25 to 35 feet over the Holocene floodplains. Simard designated the Holocene floodplain surfaces as S1 through S3 and the modern floodplain of the Ohio River as S0. Figure 2, modified from Simard (1989), is a block diagram and idealized cross-section through the Ohio River valley depicting the complex set of Pleistocene terraces and Holocene floodplains which have formed in the valley.

Holocene floodplain surfaces and Pleistocene terrace surfaces were mapped using surface age and elevation data from Simard, 1989. A map of floodplain and terrace surfaces is shown in Figure 3. Individual floodplain and terrace surfaces were not differentiated. Due to damming of the river, the S0, S1, and S2 Holocene floodplain surfaces are now flooded along the reach of the Ohio River at Washington Bottom. The S3 surface remains above the current normal pool elevation of 582-ft. MSL. A thin strip of this surface remains on the south side of the river along Washington Bottom. More extensive expanses of this surface are present along the north side of the river at Little Hocking Water Association (WA), Blennerhassett Island, Shell Kraton, and Belpre. Additional expanses of this surface are present down-stream of Washington Bottom at Lubeck Public Service District (PSD). The remainder of the alluvial valley is occupied by the Pleistocene terrace surfaces.

A generalized north-south cross-section from the Little Hocking WA well field in Ohio, through the Ohio River and across the DuPont facility, is presented in Figure 4. This cross-section shows the floodplain and terrace surfaces, the Holocene silt and clay overbank deposits overlying the Pleistocene sand and gravel outwash deposits and the re-worked Pleistocene alluvium in the center of the river valley. The alluvial terrace deposits are underlain by a flat, river-scoured bedrock surface of the Dunkard Group that rises steeply and forms the valley walls to the North of Little Hocking Water Association and to the south of the DuPont facility (Figure 3).

2.3 Hydrogeology

Groundwater supplies in the region are obtained from the Dunkard Group bedrock and Ohio River alluvial terrace deposits. The saturated portion of the Ohio River alluvial terrace deposits comprise the principal regional aquifer used for water supply purposes. Production wells completed in this aquifer have been known to yield up to 500 gallons per minute (gpm) (Schultz, 1984). Based on these high yields, numerous industrial and commercial water supply companies obtain water from the alluvial aquifer.

The Holocene silts and clays support perched groundwater zones. Along the southern riverbank at the DuPont plant site on Washington Bottom, are seven monitoring wells that are completed in this perched groundwater zone. Groundwater elevations for these monitoring wells are typically 6 to 18 feet higher than elevations measured in monitoring wells completed in the underlying primary site water-table aquifer, which is significantly depressed as a results of pumping by DuPont and GE. During the February 2002

synoptic groundwater level event, groundwater elevations in the perched water table at the site ranged from 571.91 feet above mean sea level (MSL) to 582.09 feet MSL (Figure 5). Groundwater elevations in the underlying primary site water-table aquifer ranged from 558.24 to 566.61 feet MSL.

The Ohio River Alluvial Aquifer, which is the primary water-table aquifer in the area, occurs at a depth of about 60 to 70 feet below ground surface at the DuPont plant site. The saturated zone is approximately 30 to 40 feet thick, extending approximately to the surface of the underlying Dunkard Group bedrock. Numerous pumping tests have been completed in the alluvial aquifer in the Washington Bottom area as part of water supply investigations. The hydraulic conductivity of the alluvial aquifer in the area typically ranges from 100 to 300 ft./d. In contrast, the hydraulic conductivity of the underlying Dunkard Group bedrock aquifer is typically between 0.05 and 5 ft./d (see Section 4.3.1).

Natural recharge to the alluvial aquifer comes from various sources, including:

- Infiltration of precipitation falling directly on the alluvium
- Lateral movement of the river water through the alluvium
- Seepage from stream tributaries that discharge to the Ohio River
- Surface run-off from the outcrop areas of the Dunkard Group, which forms steep slopes adjacent to the uppermost Pleistocene terrace.

3.0 PRIMARY DATA SOURCES

Data was obtained from numerous sources for use in revising the Washington Works groundwater flow model. These sources and the nature of the data obtained from each source are summarized in Table 1 below.

Table 1. Primary Data Sources for the Groundwater Flow Model.

Data Source	Data Type(s)
DuPont Washington Works RCRA Facility Investigation Report, DuPont CRG, 1999	Well and soil boring logs Groundwater elevation data Aquifer testing results
Hydrogeologic Evaluation for Additional Water Supply from Blennerhassett Island, Leggette, Brashears & Graham, Inc., 1986	Well logs Aquifer testing results
Blennerhassett Island Water Supply Well Drilling and Test Pumping, Burgess & Niple, Ltd., 1988	Well logs Aquifer testing results Grain size analysis results
Washington Works Preliminary Hydrogeologic Assessment, DuPont, 1991	Well and soil boring logs Aquifer hydraulic conductivity data
RCRA Facility Investigation Report, Shell Kraton Plant, Belpre, Ohio, Shell Chemical Company, 1999	Well and soil boring logs Aquifer hydraulic conductivity data
Geologic History of the Lower Terraces and Floodplains of the Upper Ohio River Valley, West Virginia Geological Survey Open File Report 8903, Simard, 1989	Lithology, thickness, and depositional history of the Ohio River alluvial sediments Historical low water levels of the Ohio River Terrace ages and elevations
Aquifer-Characteristics Data for West Virginia, USGS Water-Resources Investigations Report 01-4036, Kozar and Mathes, 2001	Aquifer hydraulic conductivity data Estimated recharge rates
Well Head Protection Plan, Little Hocking Water Association, 1996	Well logs Aquifer hydraulic conductivity data

Well Head Protection Area Survey, Lubeck Public Service District, 1998	Well logs Aquifer testing results
Geotechnical Boring Logs, Planned 892 Corridor, Burgess & Niple, 2001	Lithologic descriptions
Geotechnical Boring Logs, Planned Rt. 50 Corridor D over Ohio River and Blennerhassett Island, Michael Baker Jr., Inc., 2002	Lithologic descriptions
Ohio River Bathymetric Data, ACOE, 2002	Ohio River water depth and bed elevations
Monthly Operation Reports for Lubeck PSD, Little Hocking WA, and City of Belpre	Daily pumping rates
DuPont and Little Hocking Pumping Rate Data	Hourly or daily rates from days of synoptic water measurements
Well Logs from Shell and GE Sites	Lithologic descriptions
Synoptic Groundwater Levels from February 2, 2002 and August 21, 2002	Groundwater elevations at Lubeck, GE, DuPont plant, Blenn. Isle., Little Hocking, Shell

4.0 MODEL SET-UP

Groundwater flow in the Ohio River Alluvial Aquifer at the DuPont Washington Works facility and the surrounding area was simulated using United States Geological Survey's MODular Groundwater FLOW modeling code (MODFLOW, McDonald and Harbaugh, 1984). MODFLOW was selected because of its wide acceptance within the industry as well as its versatility in simulating various types of complex groundwater flow boundaries. The groundwater model was constructed and calibrated using Groundwater Vistas (v. 3.36), a graphical pre- and post-processor that interfaces with MODFLOW, published by Environmental Simulations, Inc. (ESI).

4.1 Model Domain and Discretization

The Washington Works Groundwater Model domain covers an area of 39.5 square miles, extending 41,568 feet east-west and 26,394 feet north-south. The origin of the finite difference grid is located at UTM Coordinates of 4,341,000 northing and 437,800 easting (UTM, NAD 27 meters). The finite difference model grid is shown on Figure 6.

The model domain was discretized as follows:

- 153 rows by 235 columns
- 3 layers
- 107,865 cells (69,705 active cells)
- Grid spacing: 25 m to 100 m (82 ft. to 328 ft.)

The Ohio River Alluvial Aquifer is represented in the model by layers 1 and 2, while the bedrock aquifer (minor aquifer) is simulated as layer 3. The vertical discretization and hydrostratigraphic units simulated in each layer is summarized in Table 2 below.

Table 2. Finite-Difference Grid Vertical Discretization.

Model Layer	Top Elevation (ft. above MSL)	Bottom Elevation (ft. above MSL)	Hydrostratigraphic Units Represented
Layer 1	Variable – based on topography	560	Fine-grained Holocene sediments Pleistocene Sands and Gravels Bedrock - Dunkard Group
Layer 2	560	535	Pleistocene Sands and Gravels Re-worked Pleistocene Sands and Gravels – main river channel Re-worked Pleistocene Sands and Gravels – Blennerhassett Island Bedrock - Dunkard Group
Layer 3	535	500	Bedrock - Dunkard Group

The base of layer 1 is set at an elevation of 560 ft. above MSL throughout the model layer. This elevation corresponds approximately to the elevation of the contact between the fine-grained Holocene sediments and the underlying Pleistocene sand and gravel beneath the Holocene floodplains. The top of layer 2 coincides with the base of layer 1. The base of layer 2, which is also constant throughout the model, is set at an elevation of 535 ft. above MSL. This elevation corresponds approximately to the elevation of the contact between the Pleistocene sand and gravel and the underlying shales of the Dunkard Group (bedrock) within the river valley. These contact elevations are based on well and soil boring logs from the DuPont Washington Works plant site, Blennerhassett Island, and Little Hocking WA (Figure 4).

4.2 Boundary Conditions

Under normal stress conditions, the alluvial aquifer would be expected to discharge to the Ohio River with infiltration being the predominant source of recharge to the aquifer. Due to the high volume of groundwater pumping from the alluvial aquifer along this reach of the river, the Ohio River is the main source of recharge to the alluvium within the area of the model domain while infiltration is a secondary recharge source. Correspondingly, discharge of groundwater from the alluvial aquifer within the area of the model domain occurs primarily through the numerous industrial and pubic supply wells. Minor volumes of groundwater recharge and discharge to the alluvial aquifer along several minor surface water features.

The treatment of these boundary conditions in the groundwater flow model is described in the following sections. The model boundary conditions are shown in Figure 7.

4.2.1 No Flow Boundaries

Many of the cells within the model domain are set as inactive (no flow cells). These cells are in areas of the domain where the alluvium is absent and the low permeability shales of the bedrock are present exclusively. The area of bedrock immediately surrounding the alluvial aquifer, both adjacent and below the alluvium, is included as active cells within the model to discretely simulate recharge to the alluvial aquifer from the bedrock.

The area of active bedrock cells laterally surrounding the alluvial aquifer was delineated based on the estimated locations of groundwater divides within the bedrock aquifer. The locations of the divides were estimated from surface topography.

Additional no flow cells were assigned to the center of the Ohio River in model layer 1 where the river bed elevation was below the base of that layer (560 ft. MSL). River bed elevation in each model cell was interpolated from Ohio River bathymetric data (US ACOE, 2002)

4.2.2 Ohio River

The Ohio River is simulated in the model as a MODFLOW river boundary. River boundary cells were set within the model domain based on the current river channel width and riverbed elevation. The river boundary cells representing the Ohio River were assigned to either model layer 1 or 2, depending on the elevation of the riverbed at the

center of each model cell. Where the river bed elevation was below the base of layer 1 (560 ft. MSL), the river boundary was assigned to layer 2 and the overlying cell in layer 1 was set as a no flow cell (inactive) as previously described.

River boundaries allow the simulation of groundwater recharge or discharge on the basis of the gradient between the predicted groundwater head surrounding the river cell and the specified river stage elevation. The volumetric rate of groundwater flow across the boundary is governed by the hydraulic gradient between the groundwater head and the river stage and the hydraulic conductance of the riverbed material. The conductance of the riverbed is calculated for each river cell independently, according to the following formula:

$$C_{RIV} = KLW/M$$

Where:

C_{RIV} = hydraulic conductance of the river-aquifer interconnection

K = hydraulic conductivity of the riverbed material

L = length of the riverbed within the model cell

W = width of the riverbed within the model cell

M = thickness of the riverbed within the model cell

Because entire model cells are contained within the Ohio River, the length and width of the riverbed within each river boundary cell was taken to be the length and width of the model grid cell. The thickness of the riverbed was assumed to be 5 feet. The hydraulic conductivity of the riverbed material, which was adjusted during model calibration, varied depending upon the nature of the geologic materials that the river cell was founded upon (riverbed K for river cells overlying Holocene silt and clay were lower than those overlying Pleistocene sand and gravel). The final riverbed hydraulic conductivity values for river cells are summarized in Table 3 below.

Table 3. Riverbed Hydraulic Conductivity Values.

Geologic Materials Under Riverbed	Hydraulic Conductivity of Riverbed (ft./d)
Holocene alluvium – silt, clay, fine sand	0.1
Re-worked Pleistocene alluvium – sand, gravel, silt	0.3
Re-worked Pleistocene alluvium at west end of Blennerhassett Island	30

The normal pool elevation for this reach of the Ohio River in 582 ft. above MSL. River elevations measured at the Little Hocking WA and Shell Kraton plant on August 21, 2002 were 582.24 and 582.05, respectively. The river elevation should be higher at the Shell Kraton plant than at Little Hocking WA, which is down-stream, indicating that there is some error in one or both of these measurements. Therefore, the normal pool elevation of 582 ft above MSL was used as the river stage elevation in the groundwater flow model. A constant river elevation was used throughout the model domain (e.g., no stream fall was simulated) due to river damming, which has led to relatively insignificant change in river stage elevation within the model domain.

4.2.3 Minor Surface Water Features

Numerous minor surface water features occur within the bedrock outcrop areas as well as on the alluvial terrace surfaces within the model domain. The majority of these features are ephemeral streams in which the flow is limited primarily to storm water run-off. The stream reaches within the bedrock outcrop area are included in the model as MODFLOW drain boundaries.

This boundary type is appropriate for simulating the ephemeral streams in the bedrock areas, which are minor discharge points for the bedrock aquifer but do not contribute significant recharge. Drain boundaries allow the simulation of groundwater discharge on the basis of gradient between the predicted head surrounding the drain and the specified drain elevation (i.e., the surface water elevation). Similar to river boundaries described previously, the rate of flow across the boundary is governed by the hydraulic gradient between the surrounding groundwater head and the drain stage elevation and the hydraulic conductance of the drain bed material (streambed). Contrary to river boundaries, drain boundaries will not contribute positive flow into the model domain under inward gradient conditions (e.g., if the surrounding heads are lower than the specified boundary head). The drain elevation assigned to each drain boundary cell was based on the topographic elevation along the stream at the center of the cell. The drain conductance in each boundary cell was calculated using estimated stream dimensions (length, width and bed thickness) and the streambed hydraulic conductivity. A nominal streambed hydraulic conductivity of 1 ft. / d was used so as not restrict groundwater discharge along these boundaries.

Three perennial streams are present within the model domain. These streams include Sandy Creek near Lubeck PSD, an unnamed stream across the Ohio River from Lubeck, and an unnamed stream that flows through the Shell Kraton facility on the north side of the Ohio River near Blennerhassett Island. It is likely that each of these streams provides some recharge to the alluvial aquifer and has some influence on the local groundwater elevations. Therefore, these streams were simulated as MODFLOW river boundaries to allow for the simulation of this recharge component. The river boundary elevation in each cell was based on the topographic elevation along the stream. The stream conductance in each river boundary cell was calculated using estimated stream dimensions (length, width and bed thickness) and a streambed hydraulic conductivity of 0.1 ft. / d, which is appropriate for the Holocene streambed sediments.

4.2.4 Pumping Wells

A total of 50 industrial and public water supply wells are located within the model domain. These wells, which are shown on Figure 8, are located at the following sites:

- GE (14 wells)
- DuPont Washington Works Plant (13 wells)
- Blennerhassett Island (12 wells)
- Lubeck PSD (6 wells)
- Little Hocking WA (4 wells)
- City of Belpre (1 well)

Forty-four of these wells were actively pumping during the collection of synoptic groundwater elevation measurements used for model calibration. Therefore, pumping is simulated at these 44 wells in the groundwater flow model. The pumping wells, which are all completed in the lower portion of the alluvial aquifer, are simulated in layer 2 of the model.

In most cases, pumping rates (ft^3/d) used in the model were calculated from total daily flows on February 02, 2002 (day of synoptic groundwater level measurements), assuming continuous operation. The exception is pumping rates for Little Hocking WA wells, which were not pumping during the collection of synoptic groundwater levels on February 02. Additional groundwater level measurements were collected on August 21, 2002 while the Little Hocking pumping wells were active (See Section 5.1 Calibration Strategy). Therefore, pumping rates for these wells were calculated from hourly system flows on August 21, 2002.

The majority of the DuPont water supply wells are monitored individually, including the East Well Field wells (331 to 337), Blennerhassett Island wells (435 to 446) and the Ranney collector well. The pumping rates for these wells were calculated from the total daily flow of each well. Due to model convergence problems associated with model cells going dry around groups of closely-spaced pumping wells, the individual rates for the East Well Field wells were totaled and re-apportioned equally among the seven wells. The DuPont Ranney collector well, which includes the central well and 6 lateral collector wells (horizontal), was simulated in the model as 5 individual wells with the pumping rate apportioned equally between them. The location of the 5 wells used to simulate the Ranney collector was based on the actual orientation and length of the 5 lateral collectors.

Flow rates are not monitored at individual wells in the DuPont-Lubeck Well Field. Thus the total flow rate for the field was calculated from the total daily flow and apportioned equally among the 5 wells (DL-1 to DL-5).

Total system abstraction rates for the Lubeck PSD and the City of Belpre were obtained from Monthly Operation Reports for these supply systems, which were provided by the West Virginia Department of Environmental Protection or Ohio Environmental Protection Agency (OHEPA). The total system flow rate for each system was calculated from the total daily abstraction and apportioned equally between the pumping wells.

Hourly flow rates for Little Hocking WA were provided by OHEPA. Flow rates for the time of day during which groundwater levels were measured at Little Hocking were used in the model. The total flow rate for the system was apportioned equally between wells PW-1, PW-2, and PW-3, all of which were pumping when the groundwater levels were measured (August 21,2002).

Pumping rate data for GE was unavailable. Pumping rates for the GE wells were estimated from the "normal" operational pumping rates for individual wells, which were provided for the majority of the wells by GE. The actual pumping rates usually vary somewhat from the "normal" operation rates. Therefore, the pumping rates for several of the GE wells were adjusted during model calibration to roughly match the observed draw-downs.

The pumping rates used in the model are summarized in Table 4 below.

Table 4. Model Pumping Rates.

Site	Well ID	Pumping Rate on Feb 02, 2002 (gpm)[1]	Model Pumping Rate (gpm)
Belpre	Well 1	697	697
Blennerhassett Island	435	465	465
Blennerhassett Island	436	485	485
Blennerhassett Island	437	442	442
Blennerhassett Island	438	297	297
Blennerhassett Island	439	489	489
Blennerhassett Island	440	409	409
Blennerhassett Island	441	323	323
Blennerhassett Island	442	236	236
Blennerhassett Island	443	414	414
Blennerhassett Island	444	444	444
Blennerhassett Island	445	417	417
Blennerhassett Island	446	0	0
DuPont Wash. Works Plant	331	159	165
DuPont Wash. Works Plant	332	69	165
DuPont Wash. Works Plant	333	203	165
DuPont Wash. Works Plant	334	247	165
DuPont Wash. Works Plant	335	147	165
DuPont Wash. Works Plant	336	84	165
DuPont Wash. Works Plant	337	247	165
DuPont Wash. Works Plant	DL-1	69	69
DuPont Wash. Works Plant	DL-2	69	69
DuPont Wash. Works Plant	DL-3	69	69
DuPont Wash. Works Plant	DL-4	69	69

DuPont Wash. Works Plant	DL-5	69	69
DuPont Wash. Works Plant	Gallery Well	0	0
DuPont Wash. Works Plant	Ranney Well 1	885	177
DuPont Wash. Works Plant	Ranney Well 2	--	177
DuPont Wash. Works Plant	Ranney Well 3	--	177
DuPont Wash. Works Plant	Ranney Well 4	--	177
DuPont Wash. Works Plant	Ranney Well 5	--	177
Little Hocking WA[1]	PW-1	287	287
Little Hocking WA[1]	PW-2	287	287
Little Hocking WA[1]	PW-3	287	287
Little Hocking WA[1]	PW-5	0	0
Lubeck PSD	PW-A	111	111
Lubeck PSD	PW-B	111	111
Lubeck PSD	PW-C	111	111
Lubeck PSD	PW-D	111	111
Lubeck PSD	PW-E	111	111
Lubeck PSD	PW-F	111	111
GE[2]	Well 3	200	200
GE[2]	Well 4	130	130
GE[2]	Well 5	0	0
GE[2]	Well 6	150	150
GE[2]	Well 7	NA	0
GE[2]	Well 8	150	150
GE[2]	Well 9	150	150
GE[2]	Well 10	NA	0
GE[2]	Well 11	NA	150
GE[2]	Well 12	60	60
GE[2]	Well 13	NA	100
GE[2]	Well 14	600	350
GE[2]	Well 15	500	350
GE[2]	Well 16	NA	0

1 - All pumping rates are based on measured daily flows from February 02, 2002 except for Little Hocking WA wells where August 21, 2002 hourly rates were used.
2 – Pumping rate data for GE wells was unavailable. Pumping rates for GE wells were estimated from design capacities and adjusted during model calibration.

4.3 Main Input Values

4.3.1 Hydraulic Conductivity

Distribution of hydraulic conductivity values used in the model was based on predicted sub-surface distribution of Holocene and Pleistocene aged alluvial sediments and depositional history of those sediments as described in Section 2.2 Site Geology. Model layer 1 was discretized vertically such that all fine-grained Holocene sediments occur within this model layer (See Section 4.1). The vertical discretization of model layer 2 was such that only the coarser grained Pleistocene sediments, which underlie the Holocene sediments and overlie the bedrock, occur within this model layer. The top of model layer 3 coincides with the estimated elevation of the top of the bedrock surface underlying the alluvium. Hydraulic conductivity zonation used in the model is shown in Figure 9.

The lateral distribution of hydraulic conductivity values in each model layer (zonation) reflects the predicted sub-surface distribution of alluvial sediments based on the terrace surface ages as previously described in Section 2.2. Areas of layer 1 that underlie Holocene aged floodplains in the central portion of the river valley were assigned hydraulic conductivity values appropriate for the silt and clay overbank deposits, which occur in the shallow sub-surface beneath the floodplains. Areas in both layer 1 and layer 2 underlying the higher Pliestocene-aged terraces were assigned conductivity values appropriate for the coarse sand and gravel glacial outwash deposits, which occur in the sub-surface in these areas. The areas of layer 2 beneath the existing Ohio River channel were assigned a lower conductivity than the surrounding Pleistocene sediments to account for the significant degree of re-working of the Pliestocene sediments and contribution of additional fines which has occurred in the center of the river valley. Hydraulic conductivity values assigned to model layer 3 were appropriate for the shales and sandstones of the Dunkard Group.

A range of appropriate hydraulic conductivity values was determined for each of the geologic units simulated in the flow model from available aquifer testing results and published literature values. Results from numerous aquifer pumping tests from water supply wells completed in the coarse-grained Pleistocene sand and gravels were considered in determining the appropriate range of values for these sediments. The appropriate range for the other geologic units (Holocene sediments, re-worked Pleistocene sediments, and bedrock) were estimated from published literature values. The conductivity value for each of the geologic units was adjusted during model calibration, but maintained within the range of conductivity values deemed appropriate for the unit. The range of appropriate hydraulic conductivity values for each geologic unit, the source of the conductivity data used, and the conductivity values assigned to each geologic unit in the groundwater flow model are presented in Table 5 below.

Table 5. Aquifer Hydraulic Conductivity Values.

Geologic Unit	Description	Range of K Values (ft./d.)				Model K Value (ft./d.)	Data Source(s)
		Number of Results	Min	Max	Geometric Mean		
Holocene Alluvial Sediments	Interbedded and laminated silt, clay, and fine sand	--	0.03	2.8	--	Kx,Ky = 1.0 Kv = 0.01	4
Pleistocene Alluvial Sediments	Coarse-grained sand and gravel	37	35	871	146	Kx,Ky = 300 Kv = 150	1, 2, 3, 6, 7, 8, 9
Pliestocene Sediments Underlying Blennerhassett Island	Coarse-grained sand and gravel	5	124	374	235	Kx,Ky = 200 Kv = 100	1, 6
Re-worked Pleistocene Alluvial Sediments	Interbedded sand and gravel with silt	--	2.8	284	--	Kx,Ky = 30 Kv = 3	4
Dunkard Group – Bedrock[1]	Interbedded shale and sandstone with minor limestone and coal beds	3	0.02	5.6	0.2	Kx,Ky = 0.1 Kv = 1 x 10^{-4}	5

Notes:

1. Results from Wood County only were used in the analysis. Hydraulic conductivity calculated from reported transmissivity and well depth.

Data Sources:

1. Burgess & Niple, Ltd., 1988
2. DuPont, 1991
3. DuPont CRG, 1999
4. Fetter, 1988
5. Kozar and Mathes, 2001
6. Leggette, Brashears & Graham, Inc., 1986
7. Little Hocking Water Association, 1996
8. Lubeck Public Service District, 1998
9. Shell, 1999

4.3.2 Recharge

Distribution of recharge values used in the model was based on the predicted distribution of surficial soil types and thicknesses as described in Section 2.2 Site Geology. Pleistocene terraces, Holocene floodplains, and bedrock outcrop areas were assigned differing recharge rates to account for varying infiltration rates that would be anticipated in these areas due to differing soil types and thicknesses. An area of increased recharge was assigned along the outer edges of the Pleistocene terraces adjacent to the bedrock outcrop areas to account for increased infiltration of storm water run-off from the bedrock slopes in these areas. In addition, reduced recharge rates were assigned to large areas of impervious surface cover at the GE and DuPont plant sites. Recharge zonation used in the model is shown in Figure 10.

The recharge rates for the alluvial surfaces were based on estimates made by USGS (M. D. Kozar, oral communication). The rates for bedrock areas were estimated on the basis of topography and soil types present. A low infiltration rate was assigned to the bedrock areas to account for the steep slopes and low permeability of the surficial soils in these areas. Recharge rates were adjusted during model calibration. The rates used in the groundwater flow model are presented in Table 6 below.

Table 6. Model Recharge Rates.

Model Area	Recharge Rate (in. / yr.)
Holocene floodplains	4
Pleistocene terraces	8
Pleistocene terraces along bedrock outcrop	20
Bedrock and areas of impervious surface cover	0.1

5.0 GROUNDWATER MODEL CALIBRATION

5.1 Calibration Strategy

The steady-state groundwater flow model was calibrated against two sets of synoptic groundwater elevation measurements that were collected specifically for use in model calibration. The first set was collected on February 02, 2002. During this event, groundwater levels were measured in a total of 84 observation wells. Levels were measured at the following sites:

- DuPont Plant (44 wells)
- Blennerhassett Island (8 wells)
- Little Hocking WA (8 wells)
- Lubeck PSD (6 wells)
- GE Plant (13 wells)
- Shell Kraton Plant (5 wells)

It was determined that the pumping wells at Little Hocking WA were inactive at the time of measuring groundwater levels on February 02, 2002. Therefore, a second round of groundwater level measurements was made at the Little Hocking WA site on August 21, 2002 to obtain groundwater elevations for this site under active pumping conditions. Groundwater levels were also measured in selected wells at the DuPont Plant (15 wells) and the Shell Kraton Plant (1 well) for comparison between the two monitoring events.

The extent of seasonal variation in groundwater elevation between the two monitoring events was determined by comparing groundwater elevations from the two events from well MW-11 at the Shell Kraton Plant. This well was used for the evaluation because it was the only well monitored during both events that was unlikely to be influenced by pumping activities DuPont and Little Hocking WA. The groundwater elevation decreased by 0.55 feet at MW-11 between the February and August monitoring events. This seasonal variation is likely to be insignificant relative the variation in groundwater elevation that occurs in response to changes in pumping rates within the model domain.

Given the small seasonal variation observed in groundwater elevation, the two sets of groundwater elevations were combined and used for model calibration targets (Figure 11). With the exception of those from Little Hocking WA, groundwater elevations from February 02, 2002 were used as the calibration targets in the model. The August 21, 2002 groundwater elevations from the Little Hocking WA site were used as model calibration targets in place of those from February in order to calibrate the model against groundwater elevations at this site under the influence of active pumping. Similarly, pumping rates from February 02, 2002 were used for all pumping wells other than those at Little Hocking WA where the August 21, 2002 rates were used instead (see Section 4.2.4 Pumping Wells).

5.2 Calibration Results

The results of the model calibration indicate that the groundwater flow model is accurately predicting the groundwater heads in areas where groundwater elevation data is available. The overall success of model calibration was measured in terms of the error (residual) between the observed (measured) groundwater elevation or head at each calibration target (observation well) and the head computed by the model at the target location. Calibration target residuals from the calibrated flow model along with a plot of observed versus calculated head are shown in Figure 12. The plot of observed versus computed heads shows a very good correlation between observed and computed head for a regional-scale groundwater flow model.

The success of model calibration can also be demonstrated through statistical analysis of the errors between observed and computed heads (target residuals). One particular measure is the overall residual error expressed as the percentage of the range in observed head, which is calculated as standard deviation of the residuals divided by the observed range in head. In this case, the standard deviation is 9.9% of the observed range. A result of 10% or less is generally considered to represent a good calibration. Table 7 below summarizes the results of the statistical analysis of the target residuals.

Table 7. Statistical Summary of Model Calibration Errors (Residuals).

Statistical Operation	Result
Residual Mean (ft.)	0.104
Residual Standard Deviation (ft.)	3.285
Sum of Squared Residuals (ft^2)	907.491
Absolute Residual Mean (ft.)	2.308
Minimum Residual (ft.)	-9.249
Maximum Residual (ft.)	12.060
Range in Observed Head (ft.)	33.350
Residual Standard Deviation / Range in Observed Head (ft./ft.)	0.099

6.0 MODEL RESULTS

6.1 Mass Balance

The total water balance (mass balance) of the groundwater flow model indicates very little error in the simulation. The total error (total inflow minus total outflow) is less than 0.01 percent. A summary of the mass balance for the groundwater flow model is shown in Table 8 below.

Table 8. Mass Balance Summary.

Component	In	Out
Storage	0	0
Constant Head	0	0
Wells	0	20,818,613
Drains	0	3,947
Recharge	4,343,758	0
River Leakage	17,581,300	1103300
Total	21,925,058	21,925,860
Absolute Error (In – Out)		-802
Percent Discrepancy		-0.0037

6.2 Current Pumping Conditions

The groundwater flow model is calibrated to observed groundwater elevations under the existing pumping conditions at sites within the model domain (as of February 02, 2002). The computed heads for the calibrated flow model for layers 1, 2 and 3 are shown in Figures 13, 14, and 15, respectively.

With the exception of local areas surrounding major pumping centers, the computed heads within the Pleistocene alluvium in layers 1 and 2 are approximately the same. Computed heads in the Holocene alluvium in layer 1 are slightly higher (less than 1 foot) than in the underlying Pleistocene alluvium. A slight downward gradient is predicted in most areas of the alluvial aquifer in response to pumping from model layer 2. Increased downward gradient is predicted in layer 2 locally around pumping centers.

A groundwater divide is predicted beneath the Ohio River in the Pleistocene alluvium (layer 2). A divide is predicted beneath the main channel and on either side of Blennerhassett Island. The divides separate the areas of significant draw-down centered

at DuPont and GE, Blennerhassett Island, and Little Hocking WA from one another. Due to the presence of this divide, no groundwater migration pathway is predicted beneath river in the alluvial aquifer under the current pumping rates. The only exception is at the east end of Blennerhassett Island where the river has not incised as deeply into the underlying Pleistocene alluvium (the entire width of the river boundary remains in layer 1). At this location, a groundwater divide is absent in layer 2 and the cone of depression from Belpre extends southward across the river. Figure 14a shows the approximate extent of the capture zones associated with the DuPont and Little Hocking Pumping systems.

Computed heads in bedrock areas generally decrease from layer 1 to layer 3. An upward gradient from the bedrock to the overlying alluvial aquifer is predicted throughout most of the domain, with the highest gradient predicted near pumping centers. The highest predicted upward gradient is about 9 ft. at Blennerhassett Island.

A groundwater divide is not predicted in the bedrock aquifer beneath the Ohio River. Groundwater flow from Little Hocking WA to the DuPont and GE plant sites is predicted in the bedrock aquifer. However, the bedrock aquifer is simulated discretely in the model in order to provide recharge to the overlying alluvial aquifer. Groundwater elevations in the bedrock aquifer were not calibrated and therefore should be considered an approximation. Simplification of complex stratification of the bedrock aquifer may have resulted in inaccuracies in predicted groundwater elevations in the bedrock aquifer. This simplification has little or no effect on predictions of groundwater flow in alluvium.

The majority of the groundwater in the alluvial aquifer at the DuPont plant site is currently being captured by the on-site pumping activities. Some limited off-site groundwater migration may be occurring in the northwest corner of the DuPont plant site in response to pumping at GE wells 3 and 4.

6.3 No DuPont Pumping

A simulation was run to determine the influence that pumping activities at the DuPont plant and Blennerhassett Island are having on groundwater elevations at surrounding sites. To complete this simulation, pumping wells at the DuPont plant and at Blennerhassett Island were tuned-off while leaving all other pumping well rates as per the calibrated simulation. The predicted heads in model layer 2 for this scenario are shown in Figure 16.

The model predicts an increase in groundwater heads in the central areas of the DuPont and GE plant sites of approximately 15 and 9 ft., respectively. An increase of approximately 2 ft. is predicted at Lubeck PSD.

The model predicts no change in groundwater heads at Little Hocking WA, Shell Kraton, or Belpre would occur in response to cessation in pumping by DuPont. Conversely, this simulation suggests strongly that current pumping activities at the DuPont plant and Blennerhassett Island are not influencing groundwater heads at these sites.

6.4 No GE Pumping

Similar to the previously described simulation, a simulation was run to investigate the influence that pumping activities at the GE plant are having on groundwater elevations at surrounding sites. To complete this simulation, pumping wells at the GE plant were tuned-off while leaving all other pumping well rates as per the calibrated simulation. The predicted heads in model layer 2 for this scenario are shown in Figure 17.

The model predicts an increase in groundwater heads in the central areas of the DuPont and GE plant sites of approximately 10 and 16 ft., respectively. An increase of approximately 3.5 ft. is predicted at Lubeck PSD.

Again, the model predicts no change in groundwater heads at Little Hocking WA would occur in response to cessation in pumping by GE.

6.5 No Pumping by DuPont or GE

The previous 2 simulations were combined to investigate the influence that pumping at Little Hocking WA would have on groundwater elevations at Washington Bottom if both DuPont and GE ceased pumping activities. To complete this simulation, pumping wells at the DuPont and GE plant sites were tuned-off while leaving all other pumping well rates as per the calibrated simulation. The predicted heads in model layer 2 for this scenario are shown in Figure 18.

The model predicts an increase in groundwater heads in the central areas of the DuPont and GE plant sites of approximately 22 and 24 ft., respectively, which is equivalent to the amount of draw-down. An increase of approximately 4 ft. is predicted at Lubeck PSD.

Again, the model predicts no change in groundwater heads at Little Hocking WA would occur in response to cessation in pumping by DuPont and GE. However, with no pumping on the south side of the Ohio River, the model predicts that the groundwater divide below the river would be overcome by pumping at Little Hocking WA and the capture zone for that site would extend across the river to the south.

6.6 No Little Hocking WA Pumping

A final simulation was run to determine the influence that pumping activities at the Little Hocking WA are having on groundwater elevations at surrounding sites. To complete this simulation, pumping wells at Little Hocking were tuned-off while leaving all other pumping well rates as per the calibrated simulation. The predicted heads in model layer 2 for this scenario are shown in Figure 19.

The model predicts an increase in groundwater heads in the central area of the Little Hocking well field of approximately 7-ft. An increase in groundwater elevation of about 0.5 ft. is predicted at the Shell Kraton site. No change in groundwater elevation is predicted at Belpre, Blennerhassett Island, the DuPont and GE plant sites, or at Lubeck PSD in response to cessation of pumping at Little Hocking.

Similar to the previous simulation, the model predicts that with no pumping on the north side of the Ohio River, the groundwater divide below the river would be overcome and the DuPont plant capture zone would extend across the river to the north.

7.0 SENSITIVITY ANALYSIS

A sensitivity analysis was completed to determine the sensitivity of the model to uncertainties in the primary input parameters including hydraulic conductivity, recharge, and river boundary conductance. This analysis involved perturbing the input value for a single input parameter by fixed increments and re-running the model. The overall calibration error from each of the sensitivity runs were then evaluated and compared to determine the relative sensitivity of the model to errors in each of the main input parameters.

For each input parameter, multiplication factors of 0.25, 0.75, 1.0, 1.25, and 1.5 were used in the sensitivity analysis.

The input values perturbed during the sensitivity analysis and the relative sensitivity of the model to each value are summarized in Table 9 below. Graphs of the absolute residual mean and mean change in computed head for each input parameter tested during the sensitivity analysis are shown in Figure 20.

The sensitivity analysis indicates that the model is most sensitive to uncertainties in the hydraulic conductivity value assigned to the re-worked Pleistocene alluvium beneath the Ohio River. The reduced conductivity of this unit serves to restrict the flow of groundwater beneath the river and thus strongly influences the response to pumping predicted by the model.

Table 9. Sensitivity Analysis Results.

Input Parameter	Geologic Unit or Area	Relative Model Sensitivity (ranked from 1 [highest] to 10 [lowest])
Hydraulic Conductivity	Holocene alluvium	7
	Pliestocene alluvium	2
	Pliestocene alluvium – Blennerhassett Island	6
	Re-worked Pliestocene alluvium	1
Recharge	Holocene floodplains	10
	Pleistocene terraces	4
	Pleistocene terraces along bedrock outcrop	5
River Boundary Conductance	Holocene alluvium	8
	Re-worked Pleistocene alluvium	3
	Re-worked Pleistocene alluvium at west end of Blennerhassett Island	9

8.0 MODEL CONCLUSIONS

The primary conclusions of the revised Washington Works Groundwater Flow Model are summarized as follows:

- The Ohio River is creating a groundwater divide within the Pleistocene sediments beneath the river. Due to the presence of this divide, no groundwater migration pathway is predicted beneath river in the alluvial aquifer under the current pumping rates at the various pumping centers simulated in the model.
- A groundwater divide is not predicted in the bedrock aquifer beneath the Ohio River. Groundwater flow from Little Hocking WA to the DuPont and GE plant sites is predicted in the bedrock aquifer. However, groundwater elevations in the bedrock aquifer were not calibrated and should be considered an approximation.
- The majority of the groundwater in the alluvial aquifer at the DuPont plant site is currently being captured by the on-site pumping activities. Some limited off-site groundwater migration may be occurring in the northwest corner of the DuPont plant site in response to pumping at GE wells 3 and 4.

9.0 REFERENCES

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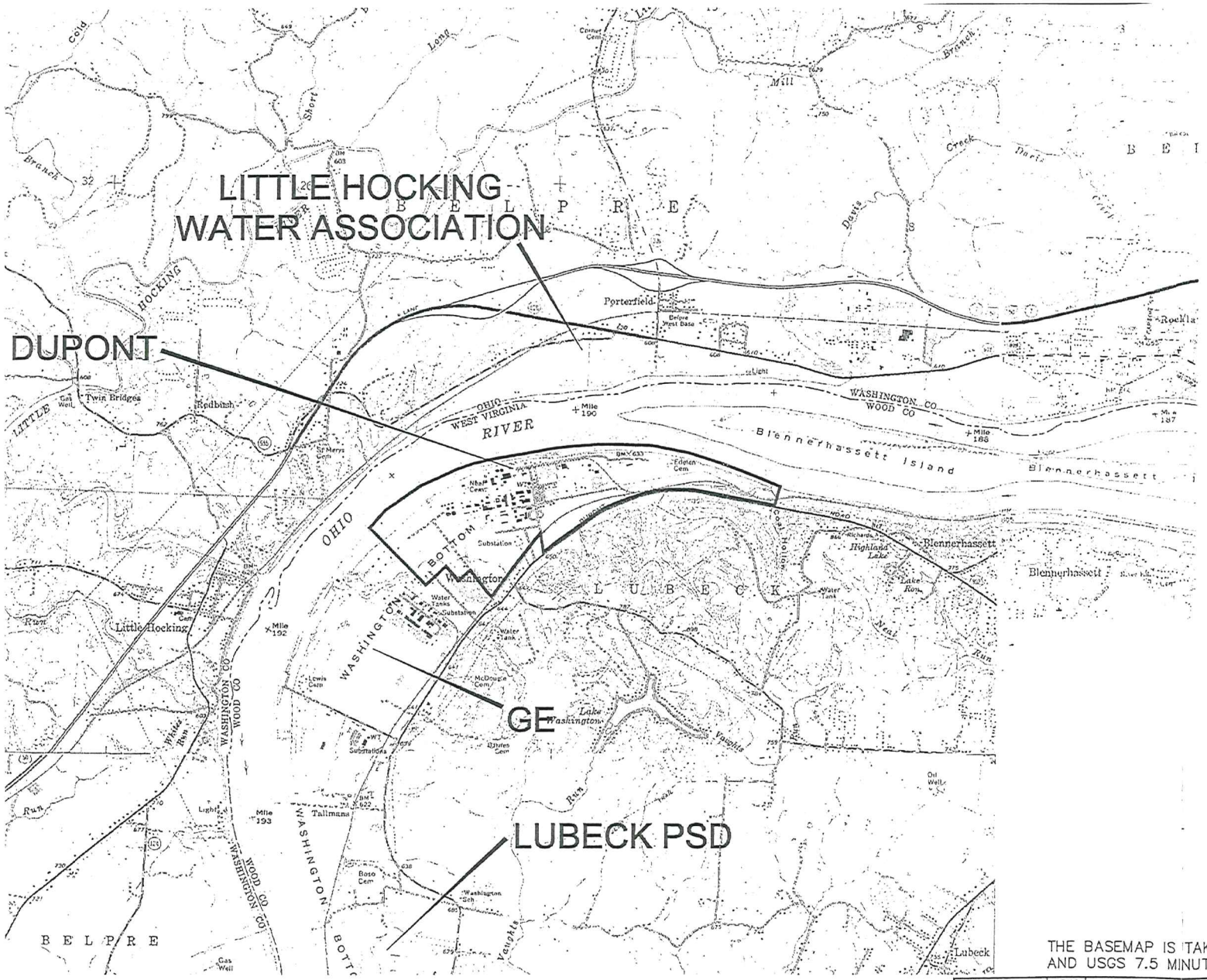
FIGURES



THE BASEMAP IS TAKEN FROM THE BELPRE, OH, LUBECK, WV AND USGS 7.5 MINUTE QUADRANGLE MAPS.

DESIGNED	INITIALS
DRAWN	DEL
CHECKED	MPS
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

DUPONT

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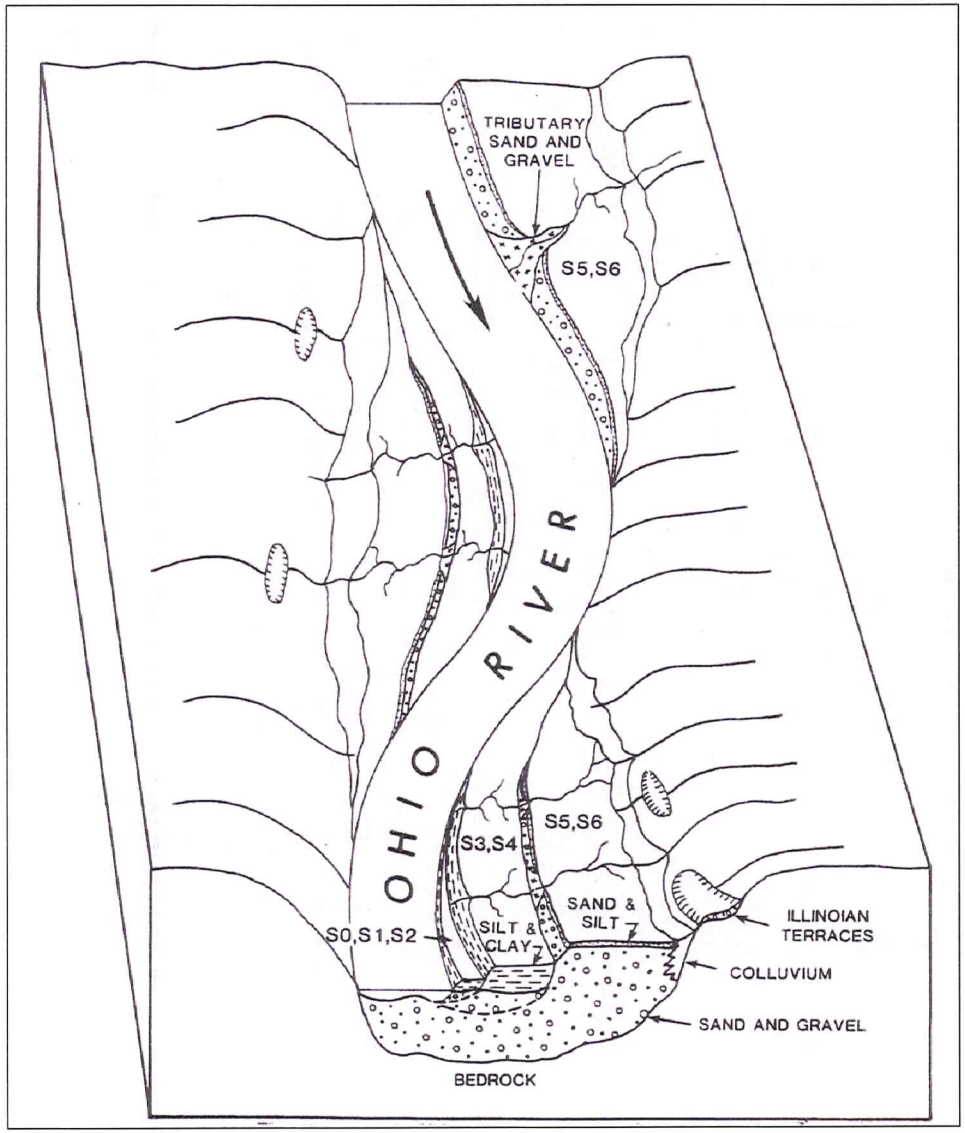
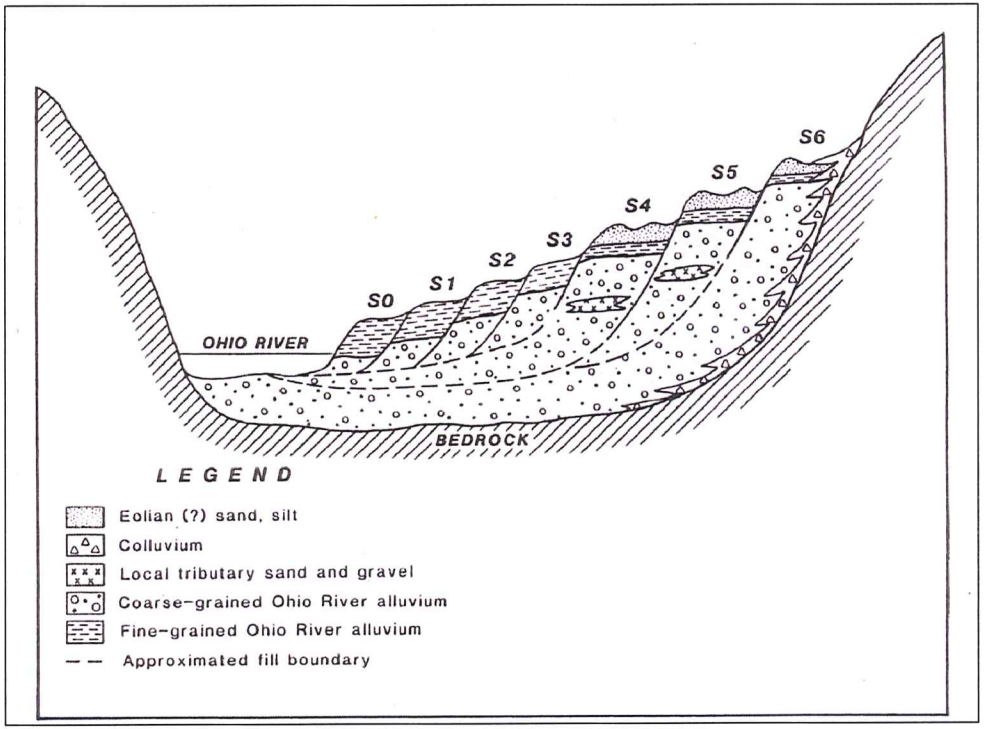
SITE LOCATION MAP

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
Not to Scale	12/3/02	Figure 1	1





ILLUSTRATIONS TAKEN FROM SIMARD, 1989.

	INITIALS
DESIGNED	
DRAWN DEL	
CHECKED MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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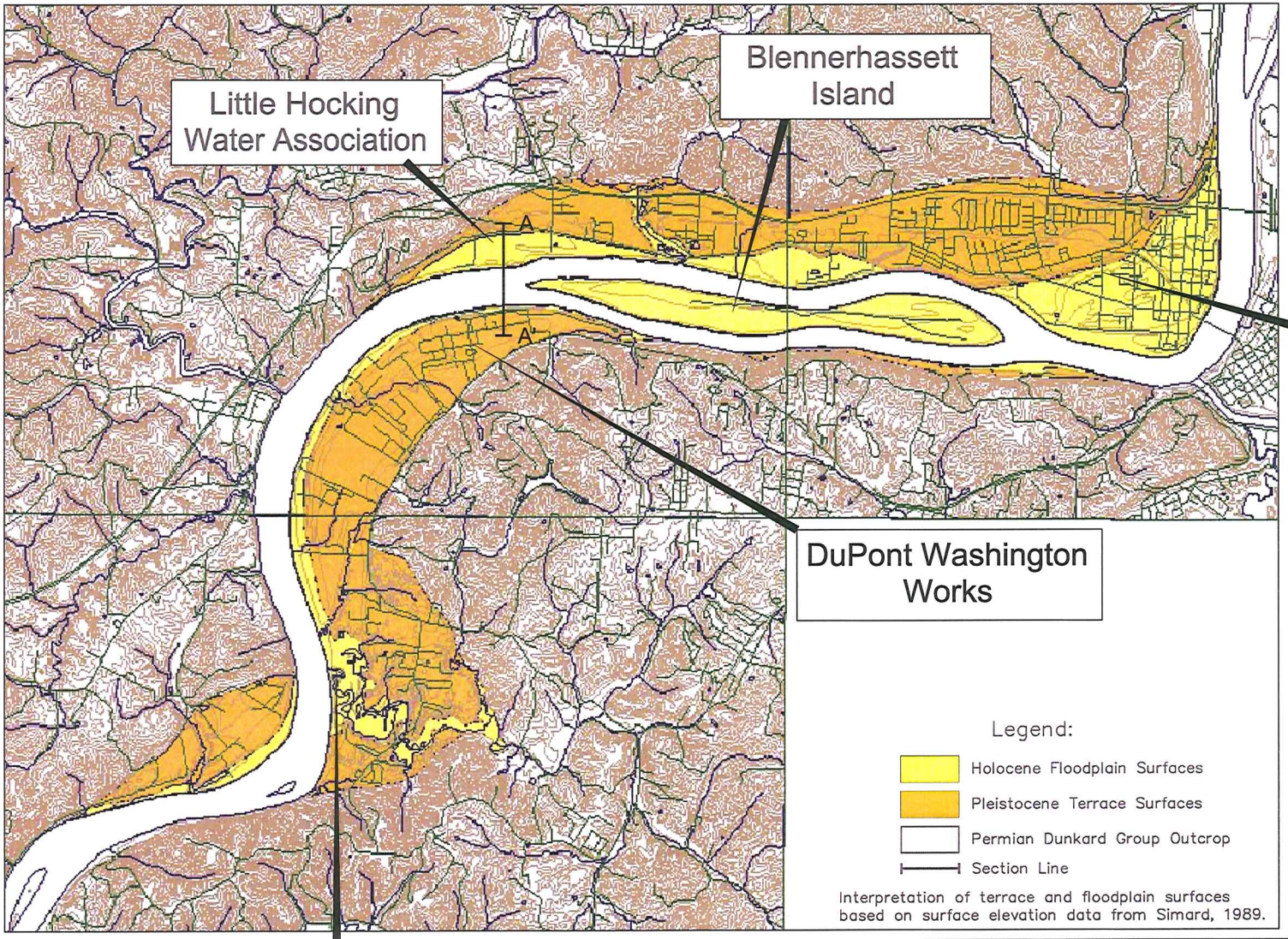
IDEALIZED OHIO RIVER VALLEY CROSS-SECTION AND BLOCK DIAGRAM

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
Not to Scale	12/6/02	Figure 4	2



DESIGNED	INITIALS
DRAWN DEL	
CHECKED MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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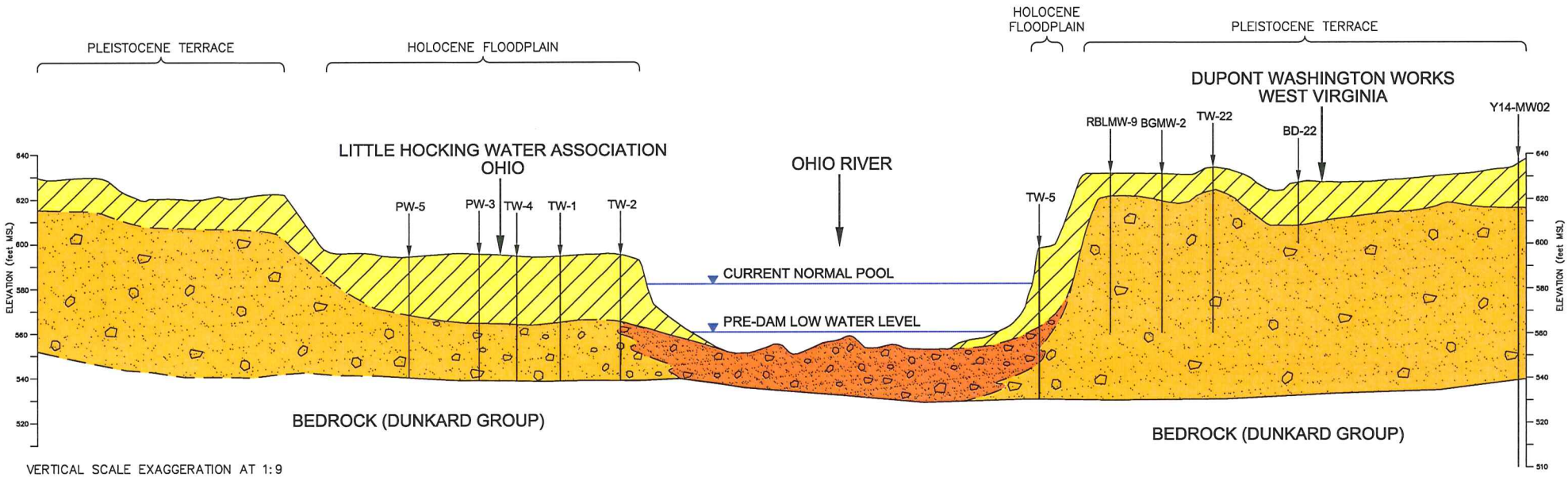
TERRACE SURFACES

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/6/02	Figure 5	3

North
A

South
A'



VERTICAL SCALE EXAGGERATION AT 1:9

VERTICAL SCALE EXAGGERATION AT 1:9

LEGEND:

- HOLOCENE OVERBANK DEPOSITS - SILT AND CLAY
- PLEISTOCENE GLACIAL OUTWASH DEPOSITS - COURSE SAND AND GRAVEL
- REWORKED PLEISTOCENE ALLUVIUM - SAND AND GRAVEL

HORIZONTAL SCALE

90 0 90'

	INITIALS
DESIGNED	
DRAWN	
DEL	
CHECKED	
MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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GENERALIZED GEOLOGIC CROSS-SECTION AT RIVER MILE 190

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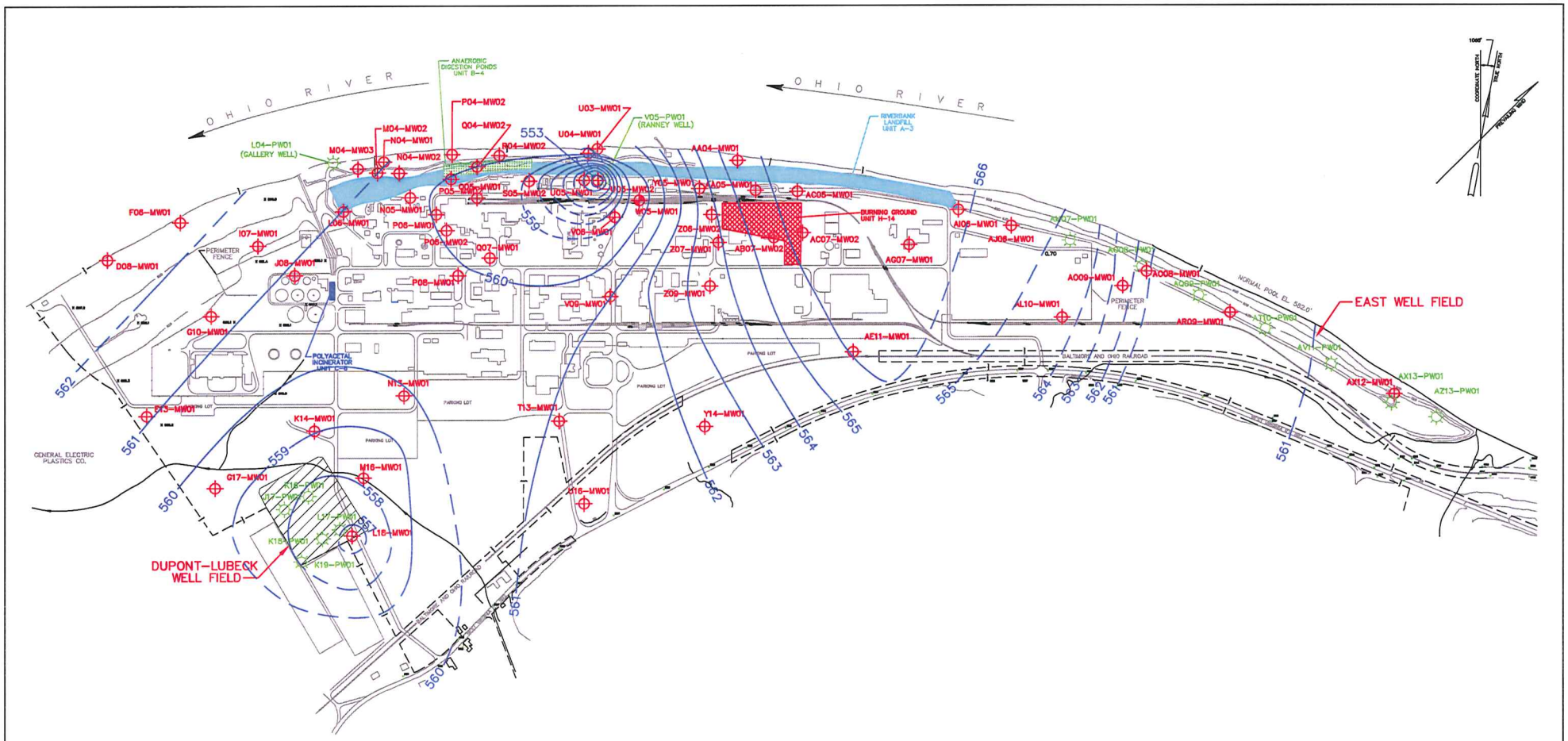
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/6/02	Figure 6	4



LEGEND

D08-MW01 = MONITORING WELL

J17-PW01 = PRODUCTION WELL

= GROUNDWATER ELEVATION CONTOUR

SCALE

700 0 700'

DESIGNED	INITIALS
KLD	
DRAWN	
DEL	
CHECKED	
MPS	
APPROVED(DESIGN)	
ASH	
APPROVED(CONSTRUCTION)	

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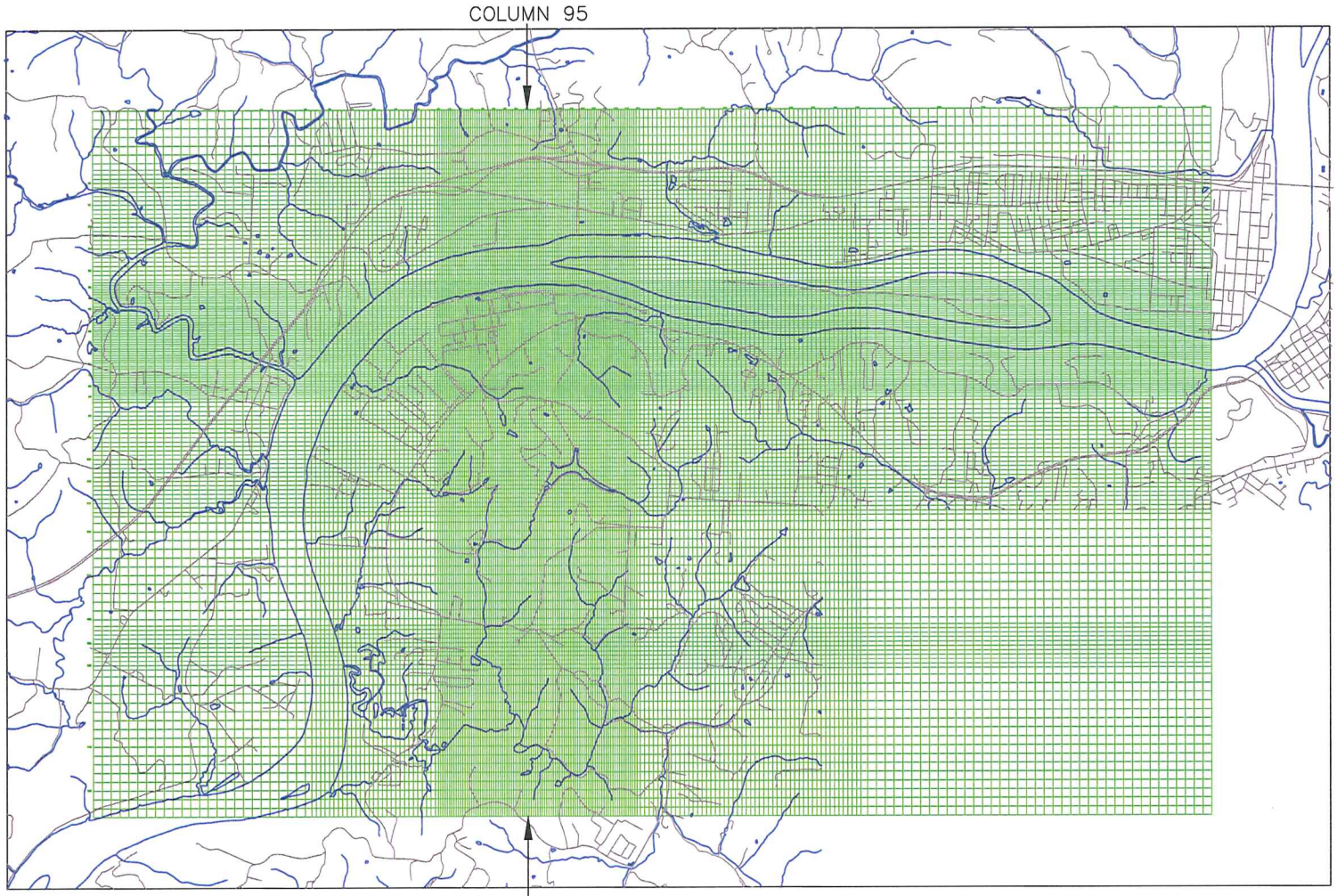
GROUNDWATER ELEVATION MAP
DUPONT PLANT SITE–FEBRUARY 2, 2002

DuPont Washington Works
Washington, West Virginia

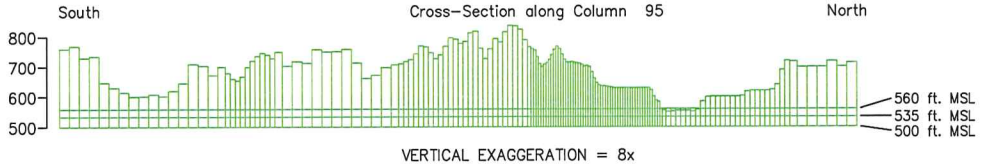
SCALE	DATE	CAD FILE NO.	FIGURE
As shown	12/11/02	figure_5A	5





HORIZONTAL SCALE

4000 0 4000'



VERTICAL EXAGGERATION = 8x

DESIGNED	INITIALS
DRAWN	
DEL	
CHECKED	
MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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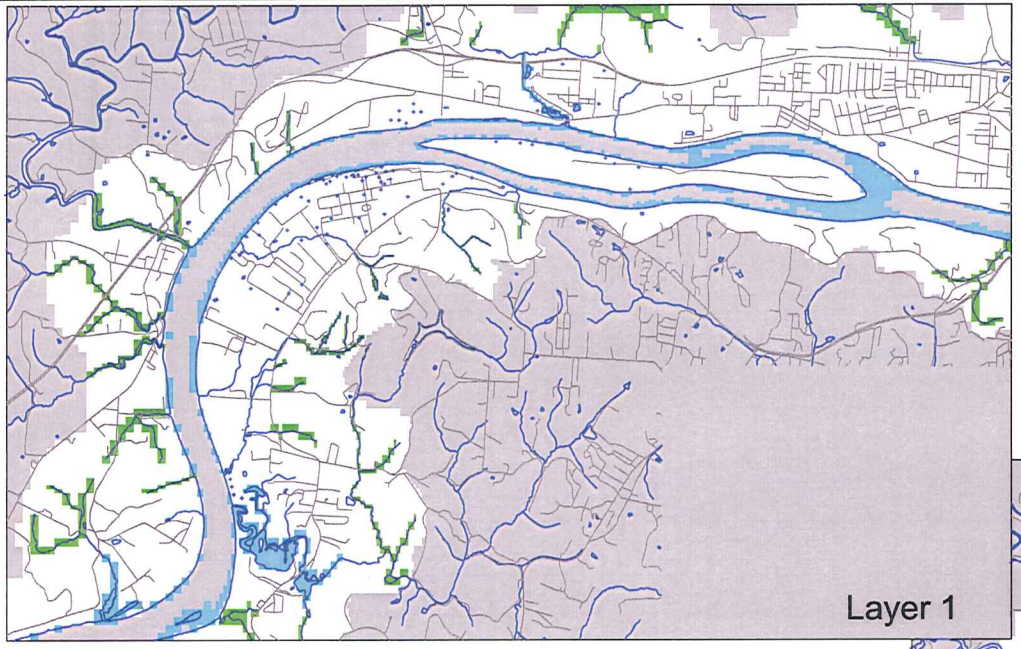
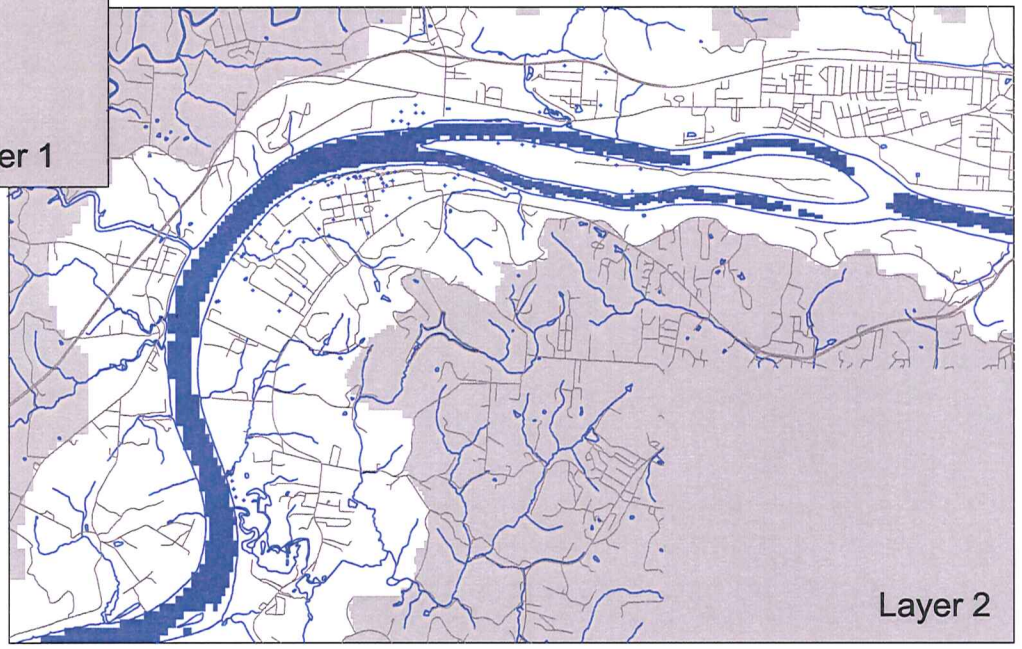
MODEL FINITE DIFFERENCE GRID

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 7	6





N

SCALE

5000 0 5000'

LEGEND:

- River Cell over fine Alluvium (K=0.1 ft./d)
- River Cell over re-worked coarse alluvium (K=0.3 ft./d) (30 ft./d west end of Blenn. Island)
- Drain Cell (K=1 ft./d)
- No Flow Cell

	INITIALS
DESIGNED	
DRAWN	DEL
CHECKED	MPS
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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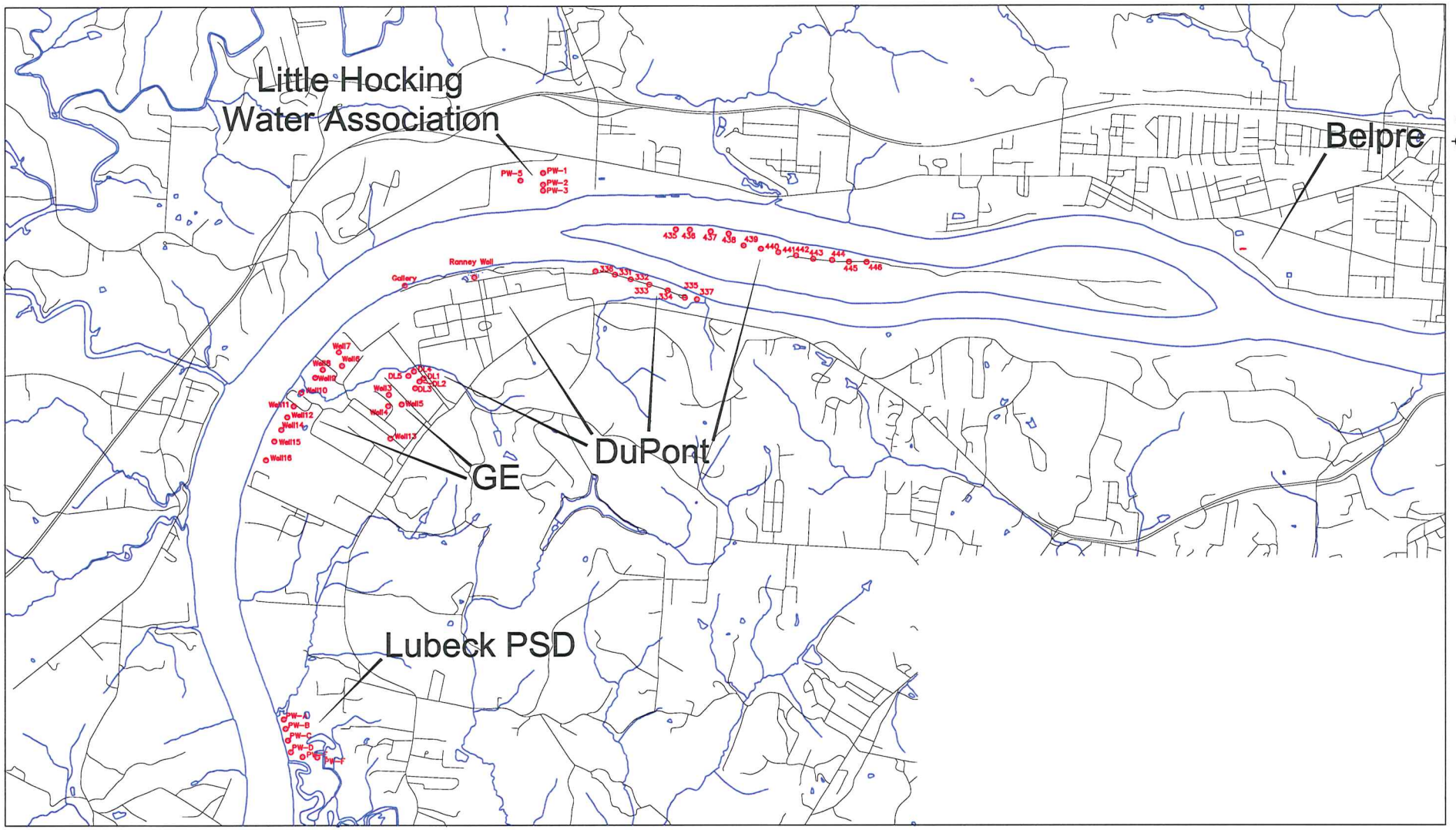
BOUNDARY CONDITIONS

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 8	7



Site	Total (gpm)
DuPont (exc. Gallery)	6804
GE (estimated)	1750
Little Hocking (August 21, 2002)	860
Lubeck	664
Belpre	697

SCALE

2600 0 2600'

	INITIALS
DESIGNED	
DRAWN DEL	
CHECKED MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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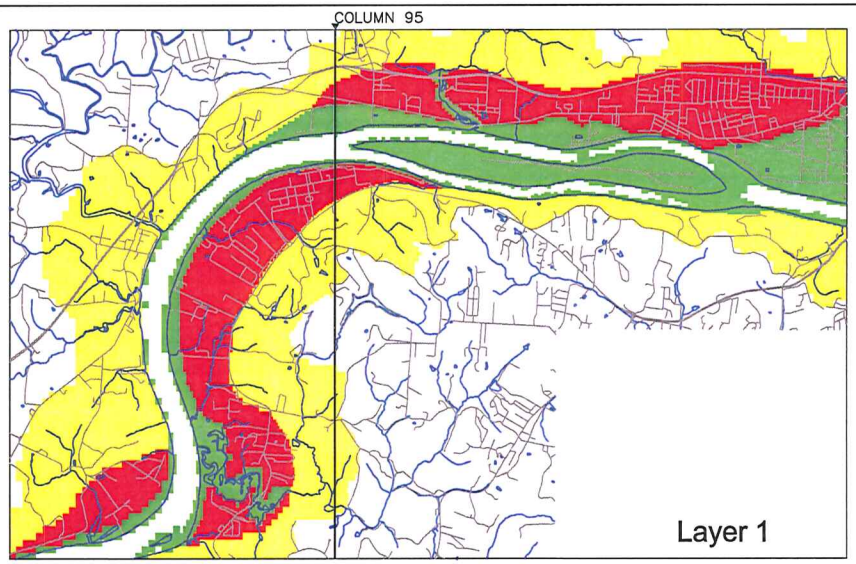
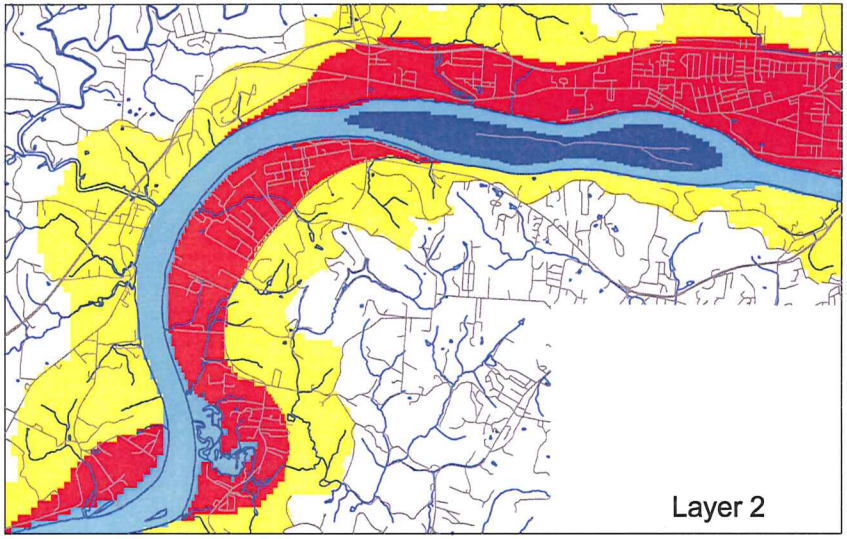
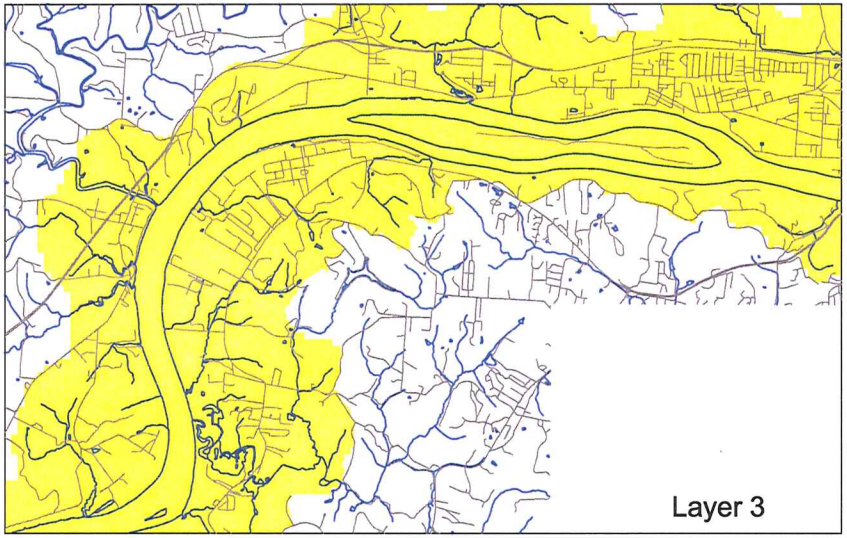
MODEL PUMPING WELL LOCATIONS

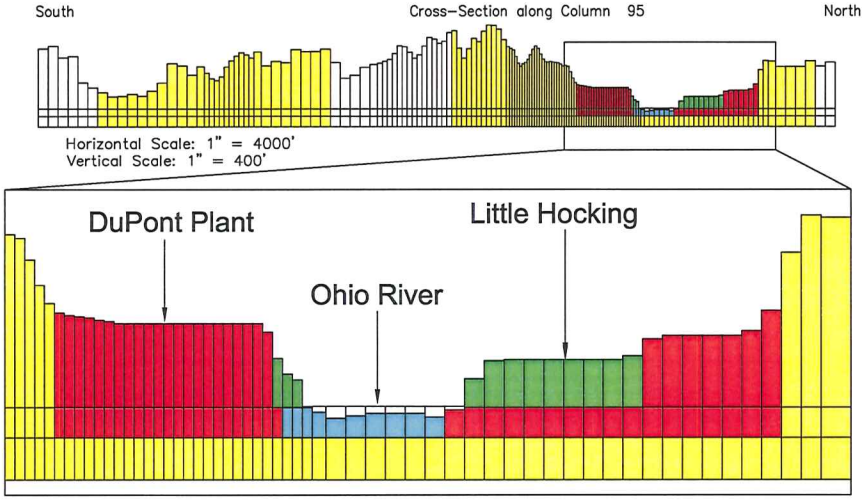
DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 8	8









LEGEND:

- Coarse Alluvium (300 ft./d)
- Re–worked Alluvium (30 ft./d)
- Blennerhassett Island (200 ft./d)
- Fine Alluvium (1 ft./d)
- Bedrock (0.1 ft./d)
- Inactive Cells

SCALE

6000 0 6000'

	INITIALS
DESIGNED	
DRAWN	
DEL	
CHECKED	
MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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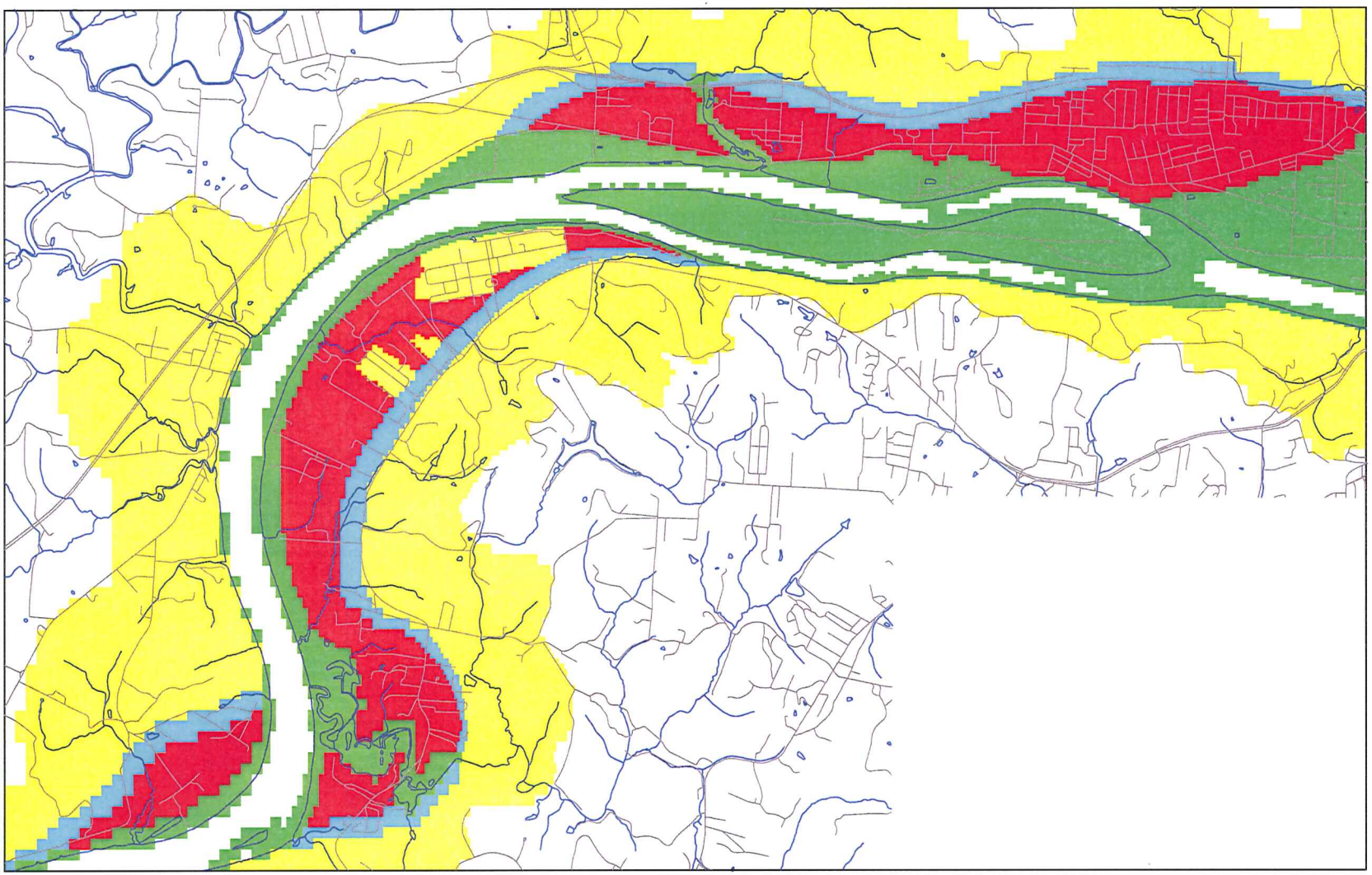
HYDRAULIC CONDUCTIVITY ZONATION

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/4/02	Figure 10	9



LEGEND:

- Holocene Alluvium (4 in./yr.)
- Pleistocene Alluvium (8 in./yr.)
- Alluvium at bedrock outcrop (20 in./yr.)
- Bedrock/Impervious Cover (0.1 in./yr.)
- Inactive Cells

SCALE

3000 0 3000'

	INITIALS
DESIGNED	
DRAWN	
DFL	
CHECKED	
MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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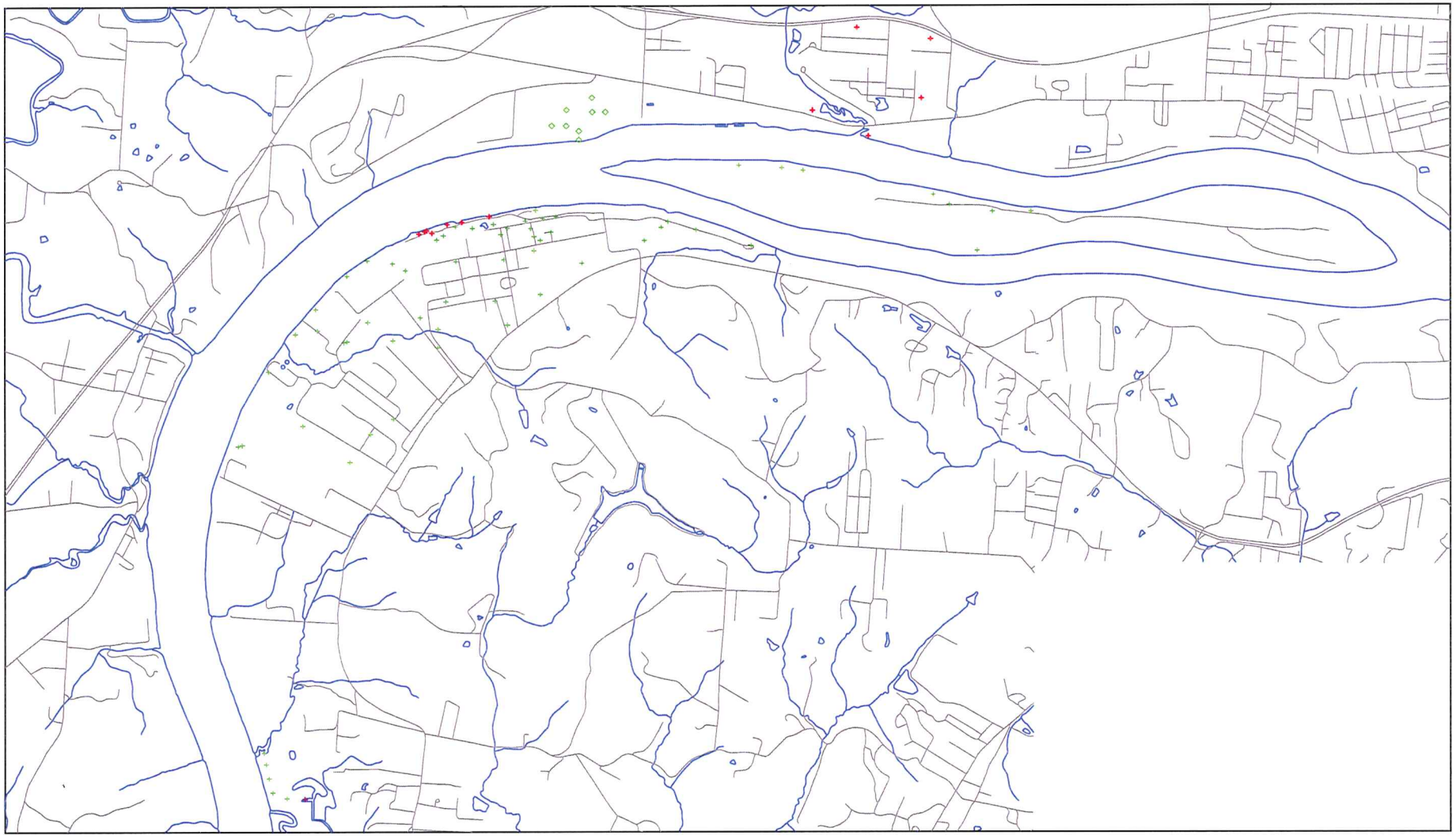
RECHARGE ZONATION

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/4/02	Figure 11	10



LEGEND:

- CALIBRATION TARGET – LAYER 1 – FEBRUARY 2, 2002
- CALIBRATION TARGET – LAYER 2 – FEBRUARY 2, 2002
- CALIBRATION TARGET – LAYER 2 – AUGUST 21, 2002

SCALE

2200 0 2200'

DESIGNED	INITIALS
DRAWN: DEL	
CHECKED: MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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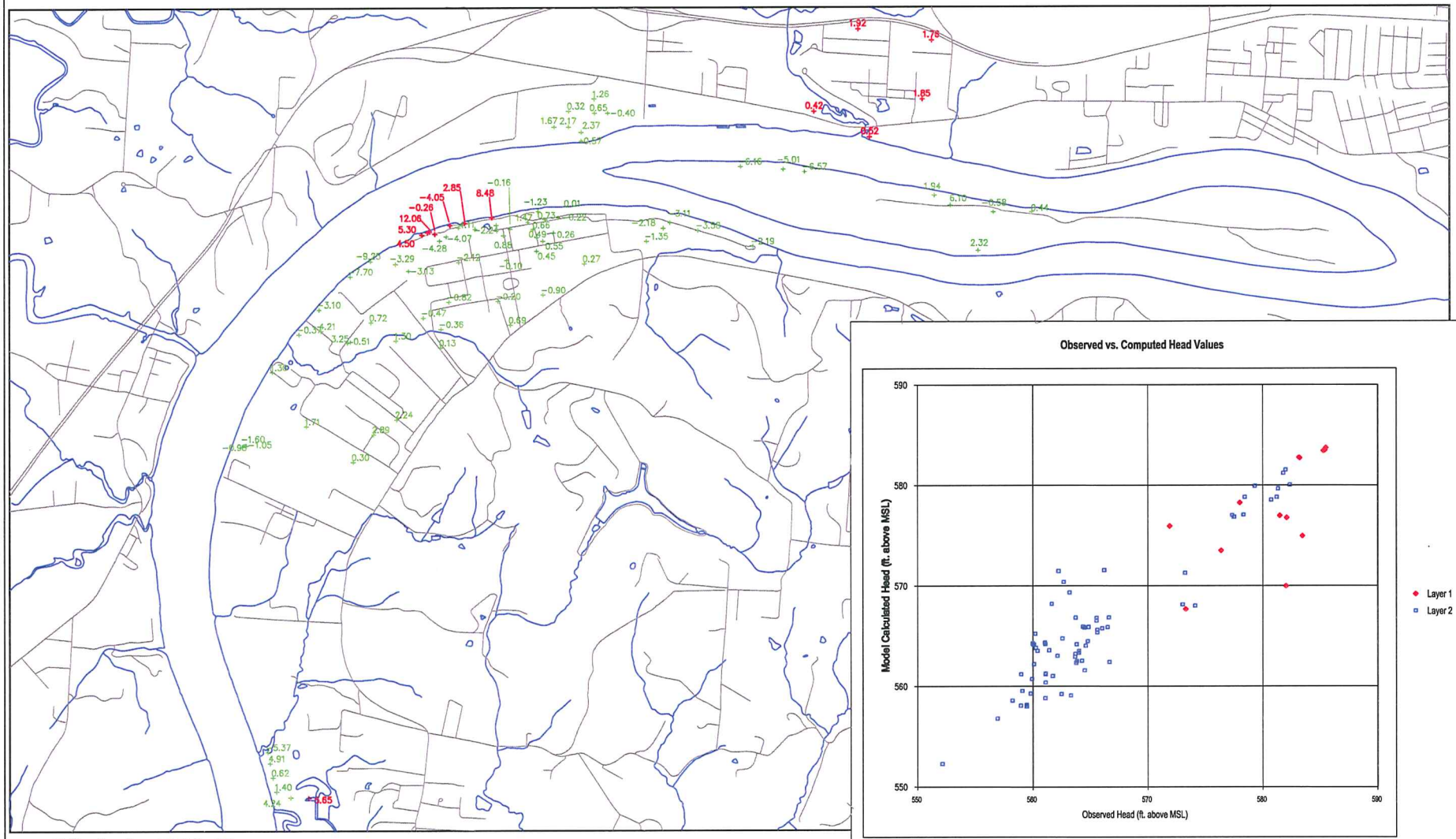
SYNOPTIC WATER LEVEL MEASUREMENT LOCATIONS

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	HOURS
As Shown	12/4/02	Figure 12	11



Calibration Error Statistical Summary

Residual Mean	0.104
Residual Standard Deviator	3.285
Sum of Squares	907.491
Absolute Residual Mean	2.308
Minimum Residual	−9.249
Maximum Residual	12.060
Range in Observed Head	33.350
Standard Dev./Obs Range	0.099

LEGEND:

−4.05 LAYER 1 TARGET LOCATION AND RESIDUAL

−4.05 LAYER 2 TARGET LOCATION AND RESIDUAL

SCALE

2200 0 2200'

	INITIALS
DESIGNED	
DRAWN	
DEL	
CHECKED	
MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

DUPONT

Corporate Remediation Group

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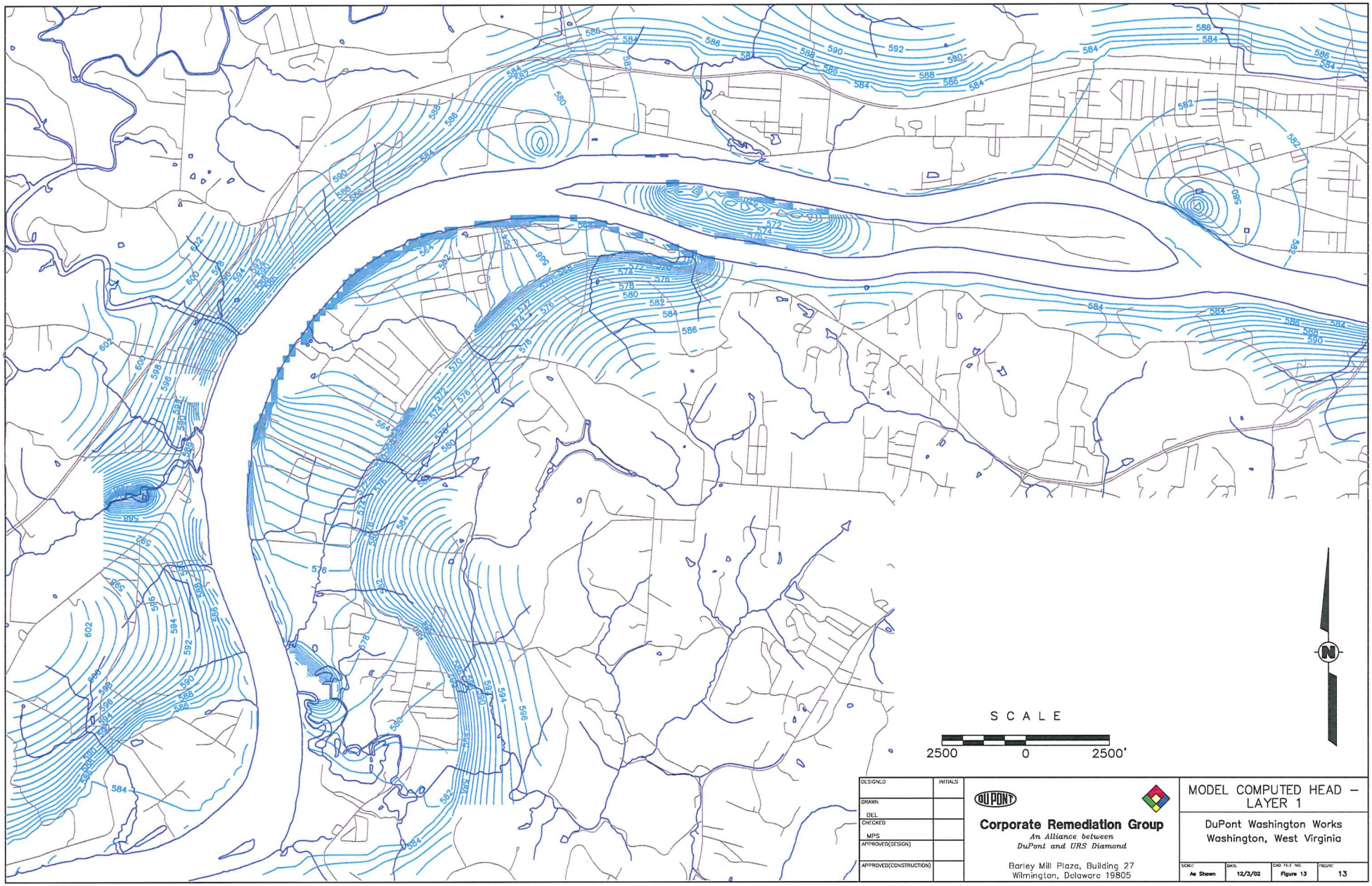
MODEL CALIBRATION RESULTS

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/6/02	Figure 18	12



DESIGNED	INITIALS
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CHECKED	
MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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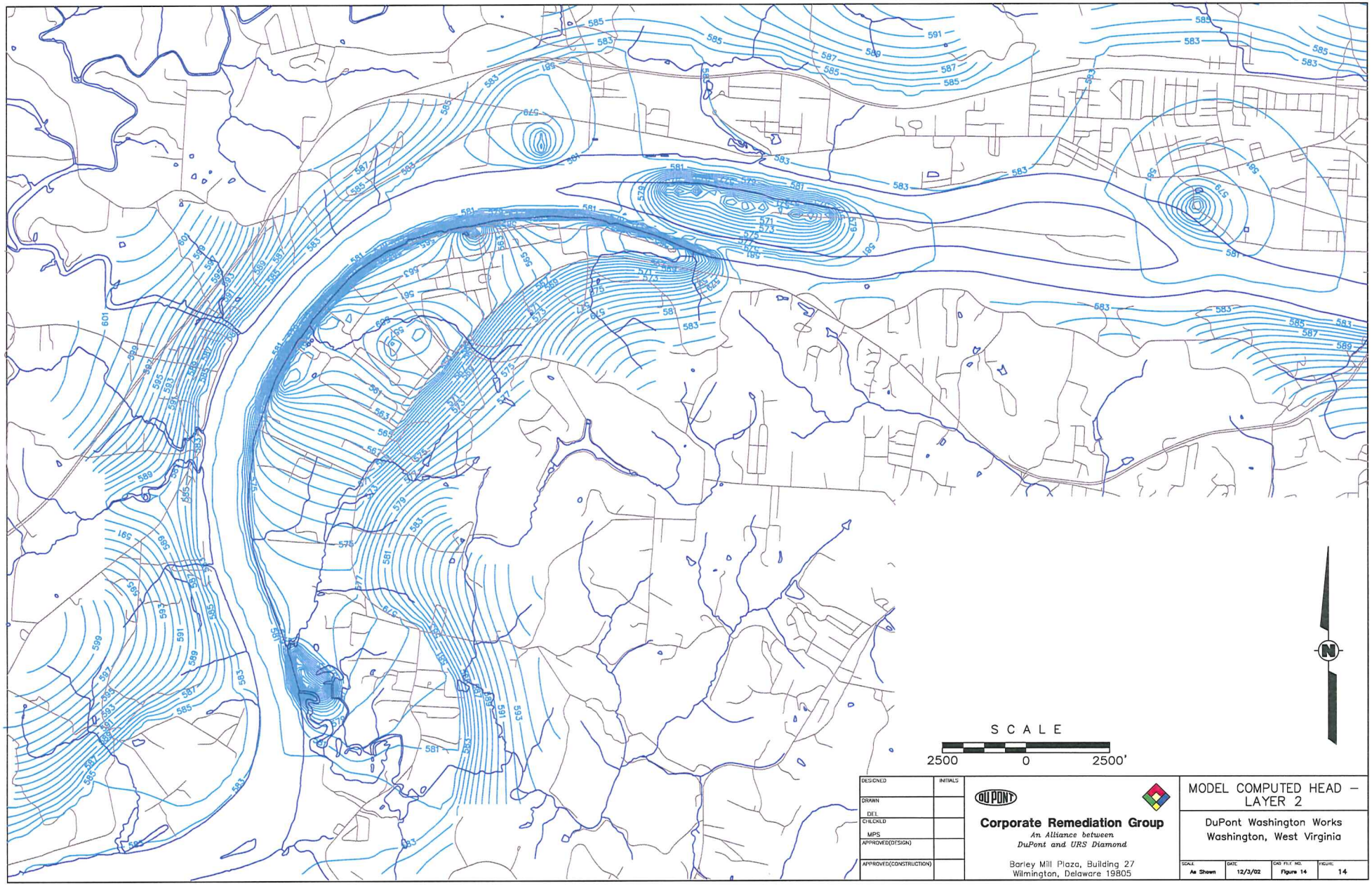
MODEL COMPUTED HEAD – LAYER 1

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 13	13



DESIGNED	INITIALS
DRAWN	
DEL	
CHECKED	
MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

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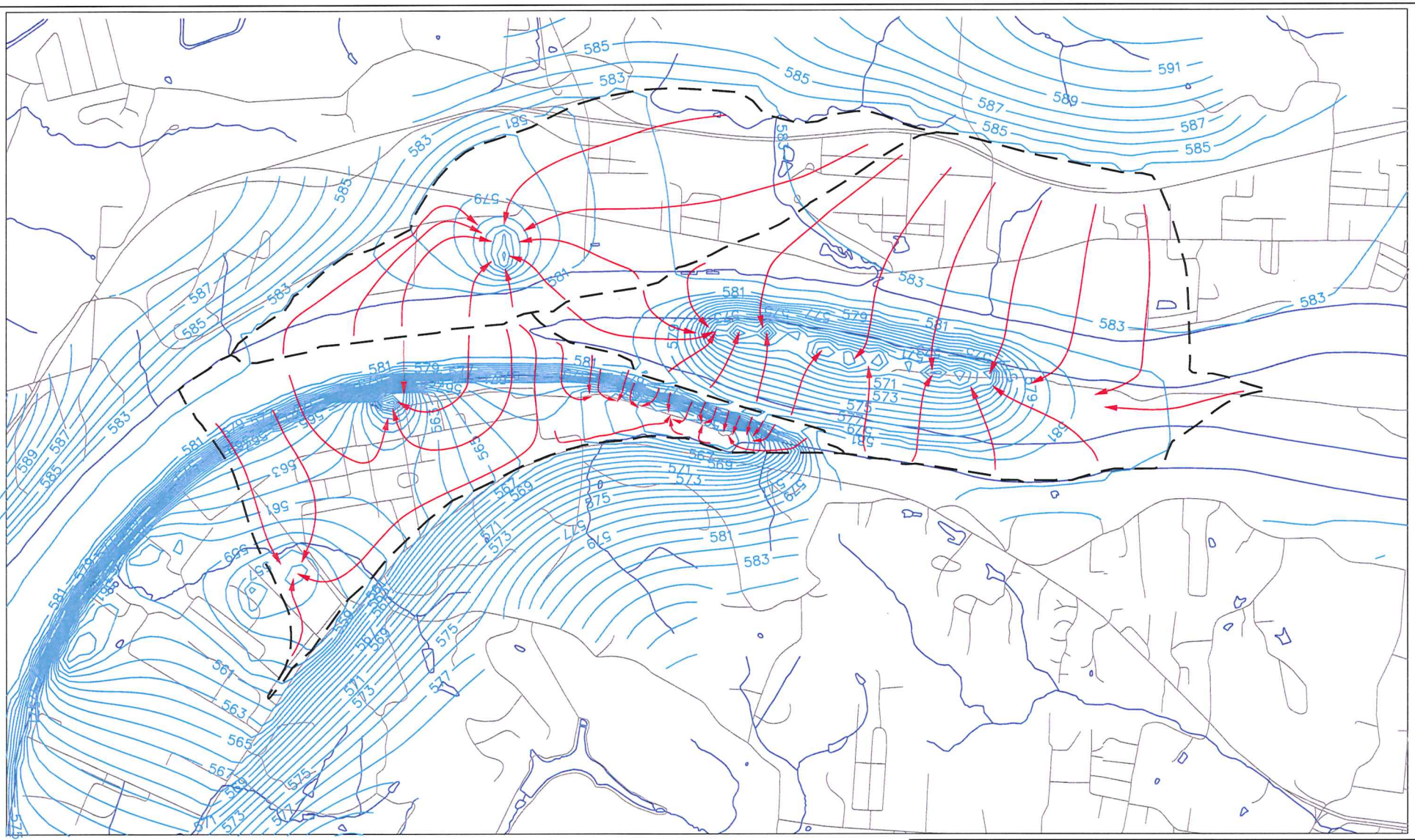
MODEL COMPUTED HEAD – LAYER 2

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 14	14



		INITIALS
DESIGNED		
DRAWN	DEL	
CHECKED	MPS	
APPROVED(DESIGN)		
APPROVED(CONSTRUCTION)		

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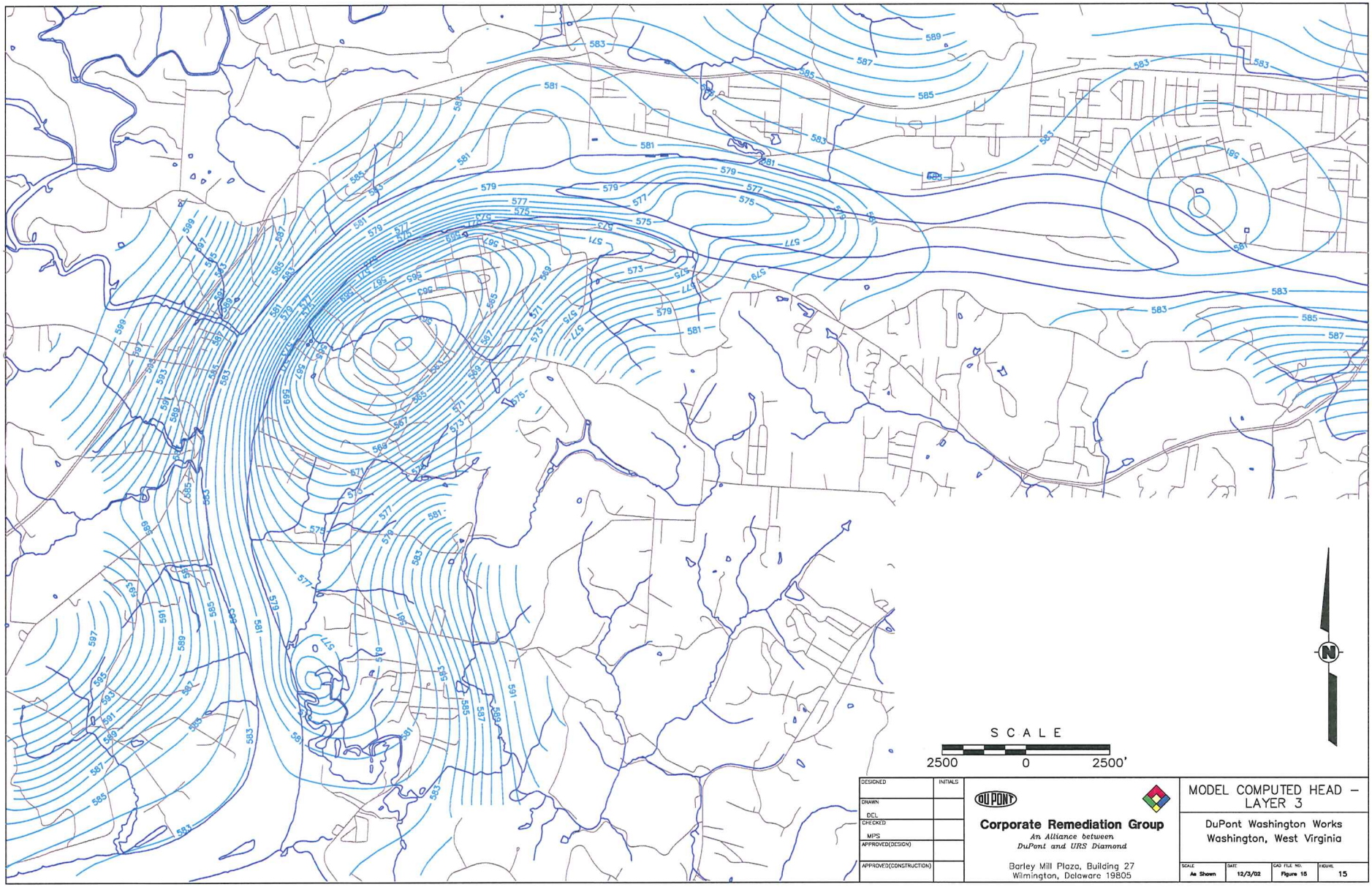
MODEL COMPUTED HEAD – LAYER 2 – SITE AREA

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 14A	14A



DESIGNED	INITIALS
DRAWN	
DCL	
CHECKED	
MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

DUPONT

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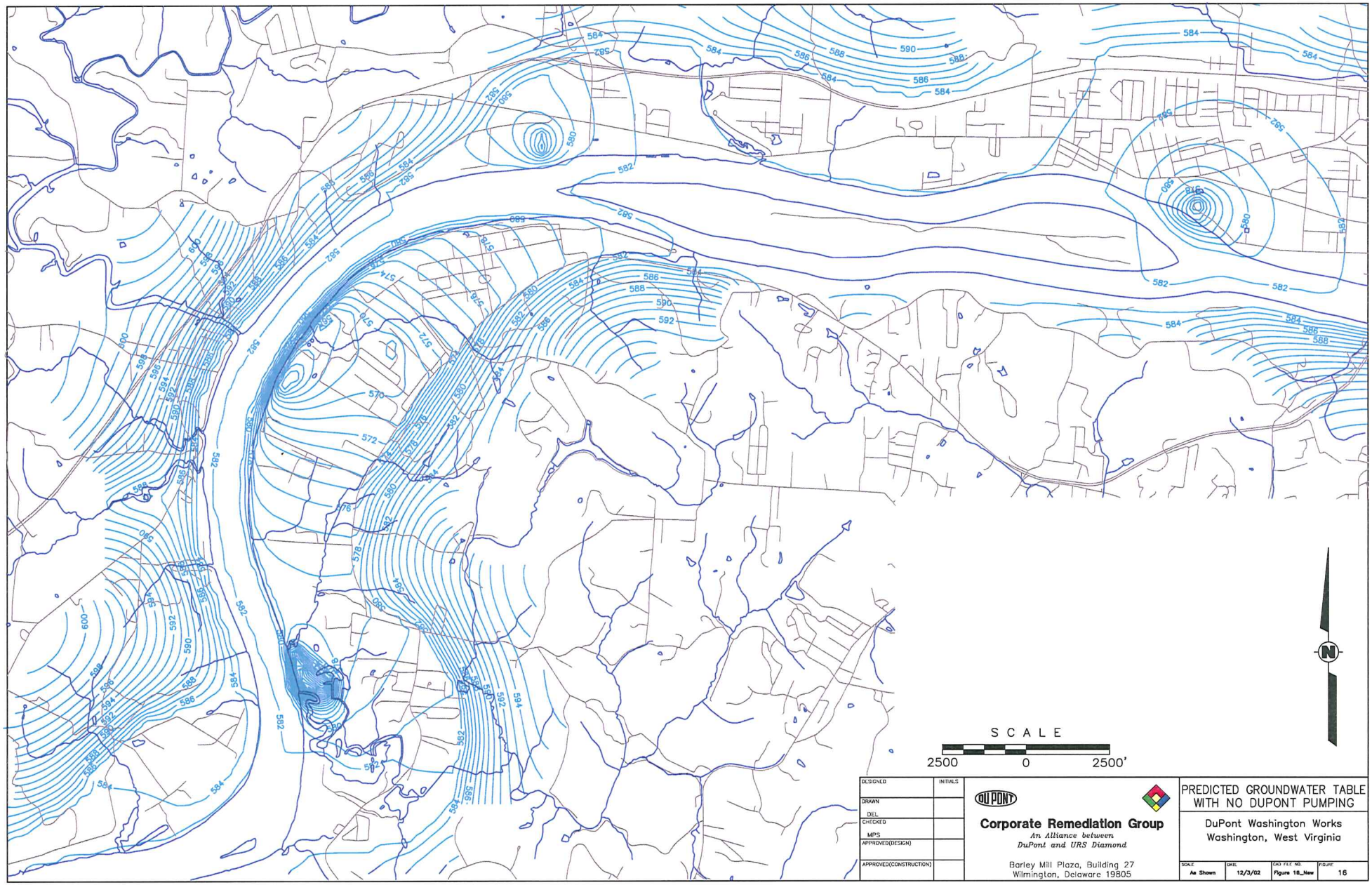
Wilmington, Delaware 19805

MODEL COMPUTED HEAD – LAYER 3

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 15	15



DESIGNED	INITIALS
DRAWN	
DEL	
CHECKED	
MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

DUPONT

Corporate Remediation Group

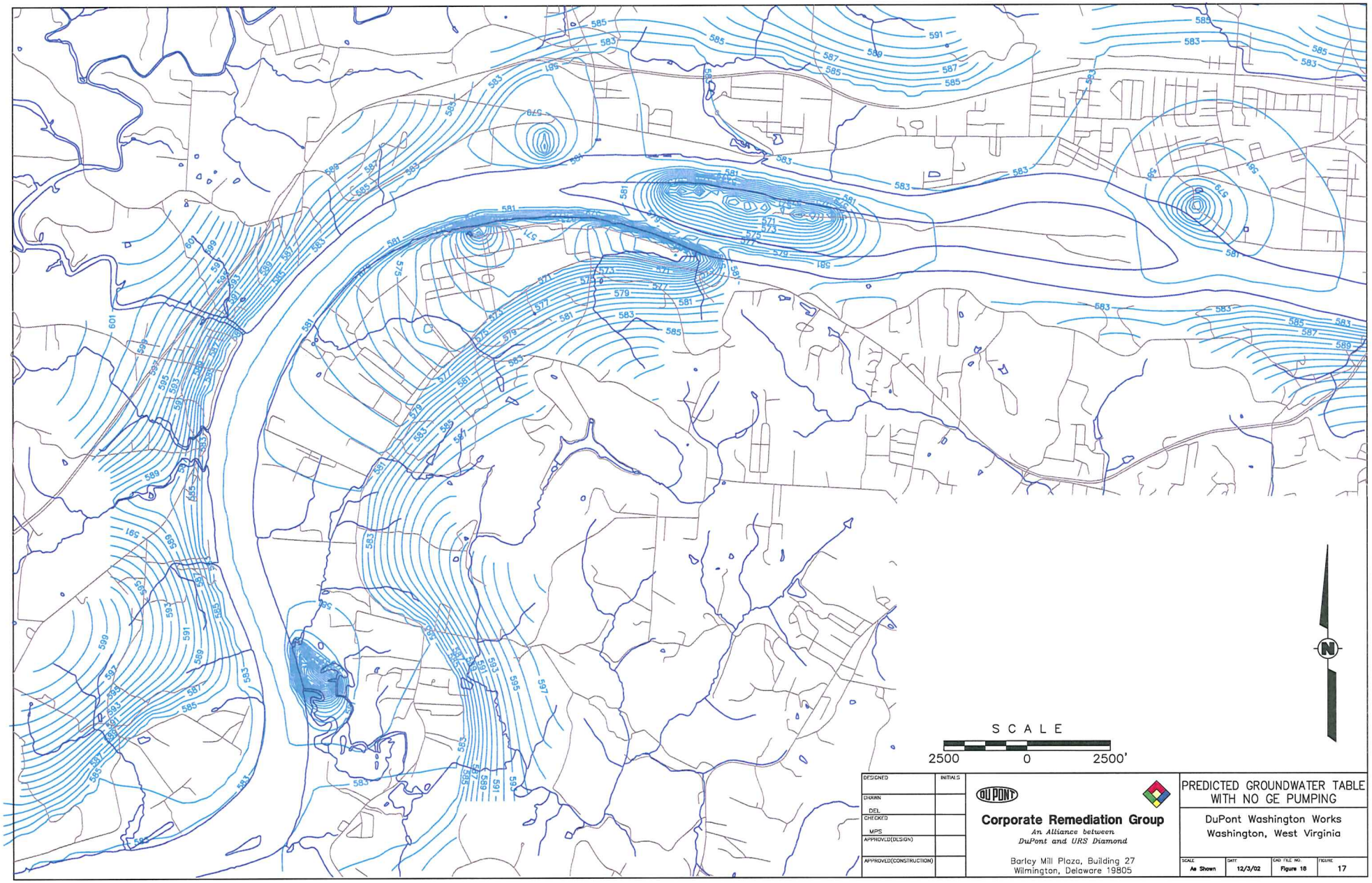
An Alliance between DuPont and URS Diamond

Barley Mill Plaza, Building 27
Wilmington, Delaware 19805

PREDICTED GROUNDWATER TABLE WITH NO DUPONT PUMPING

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 16_New	16



DESIGNED	INITIALS
DRAWN DEL	
CHECKED MPS	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	

DUPONT

Corporate Remediation Group

An Alliance between DuPont and URS Diamond

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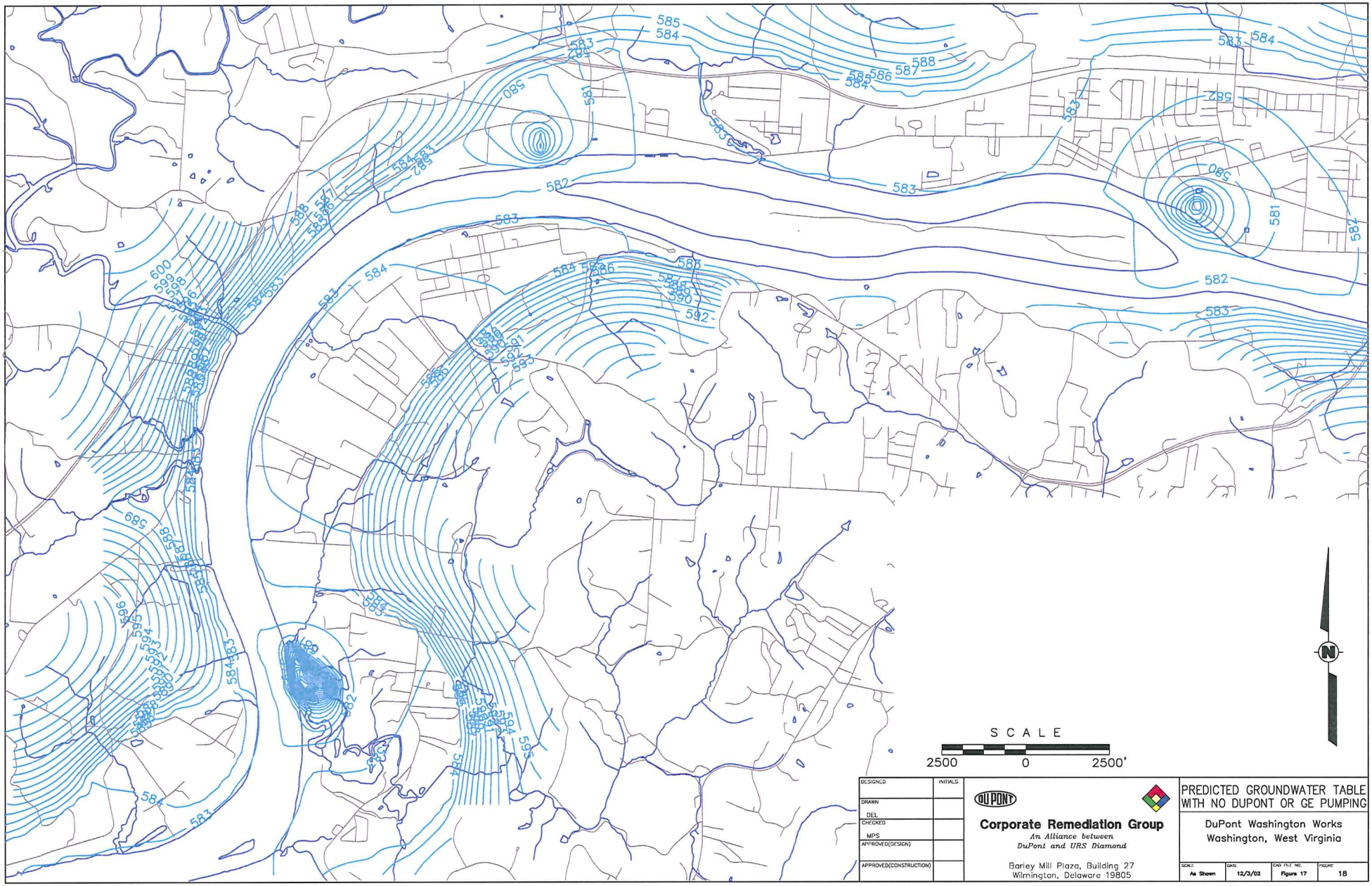
Wilmington, Delaware 19805

PREDICTED GROUNDWATER TABLE WITH NO GE PUMPING

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 18	17


SCALE
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Corporate Remediation Group
An Alliance between
DuPont and URS Diamond
Barley Mill Plaza, Building 27
Wilmington, Delaware 19805
PREDICTED GROUNDWATER TABLE
WITH NO DUPONT OR GE PUMPING
DuPont Washington Works
Washington, West Virginia
SCALE: As Shown
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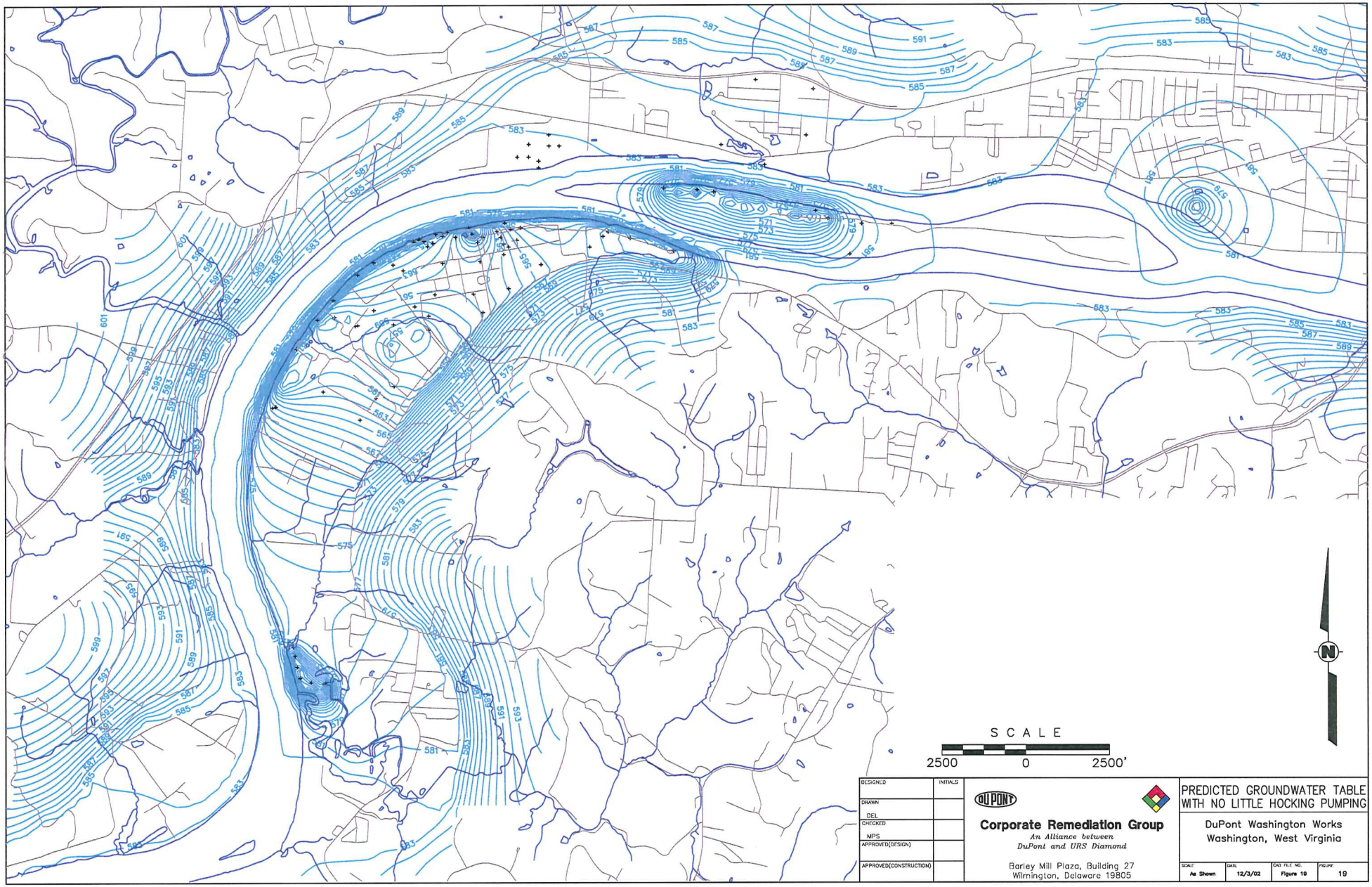
FIGURE: 18



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DUPONT

Corporate Remediation Group

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Wilmington, Delaware 19805

PREDICTED GROUNDWATER TABLE WITH NO LITTLE HOCKING PUMPING

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
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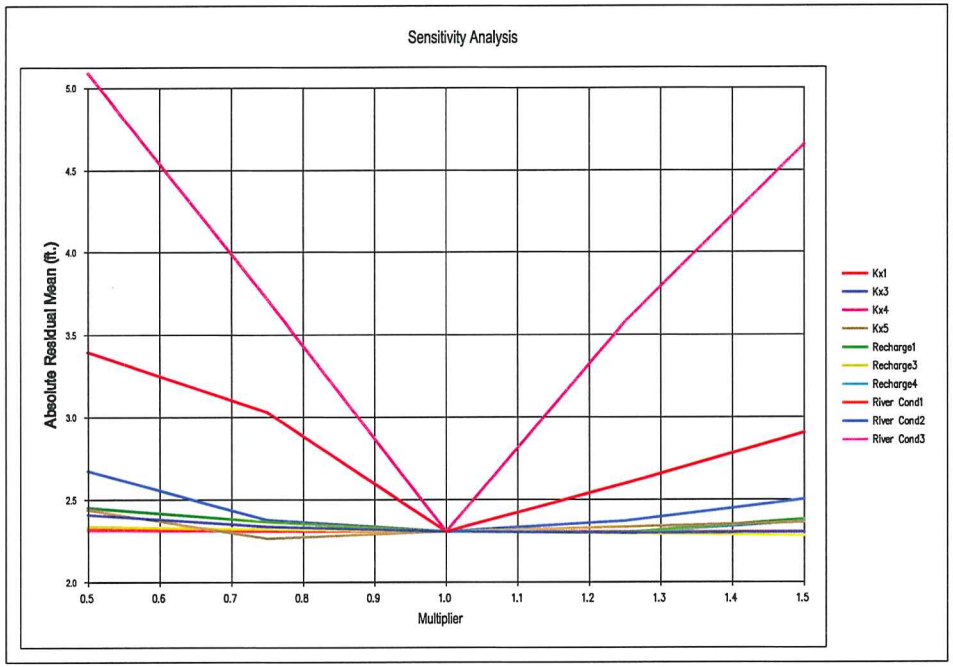

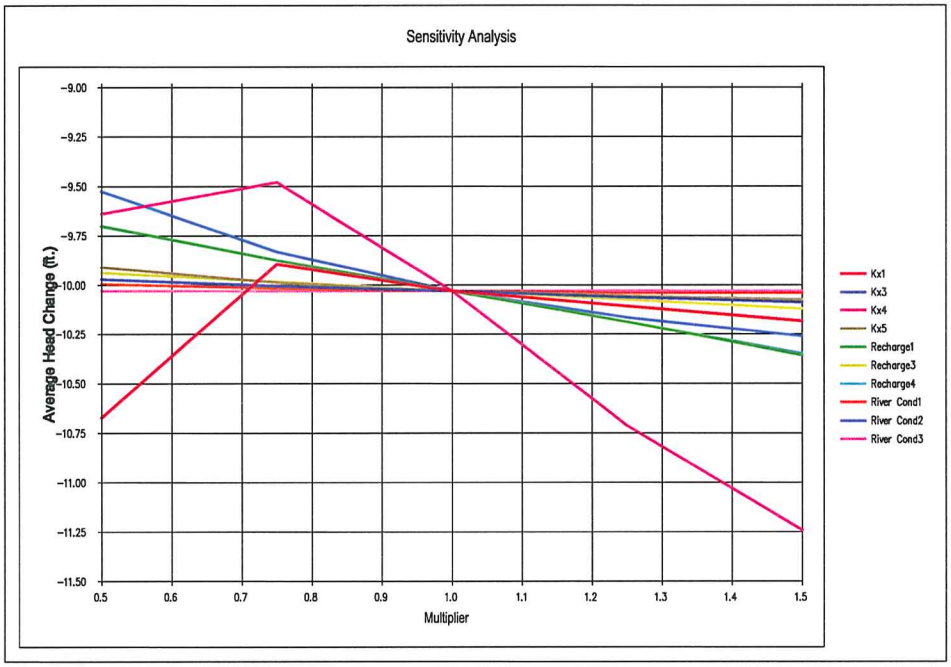

KEY:

Kx1 =	Pleistocene Alluvium
Kx2 =	Holocene Alluvium
Kx4 =	Re-worked Pleistocene Alluvium
Kx5 =	Blennerhassett Island Pleistocene Alluvium
Recharge1 =	Pleistocene Terrace Surfaces
Recharge3 =	Holocene Floodplain Surfaces
Recharge4 =	Pleistocene Terrace Surfaces Along Bedrock Outcrop
River Cond1 =	Riverbed over Holocene Alluvium
River Cond2 =	Riverbed over Pleistocene Alluvium
River Cond3 =	Riverbed over Pleistocene Alluvium at West End of Blennerhassett Island

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APPROVED(CONSTRUCTION)	

DUPONT

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Wilmington, Delaware 19805

SENSITIVITY ANALYSIS RESULTS

DuPont Washington Works
Washington, West Virginia

SCALE	DATE	CAD FILE NO.	FIGURE
As Shown	12/3/02	Figure 19a	20

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In cooperation with the West Virginia Bureau for Public Health
Office of Environmental Health Services

Geohydrology and Simulation of Ground-Water Flow in Ohio River Alluvial Aquifers near Point Pleasant, Lubeck, Parkersburg, Vienna, Moundsville, and Glendale, West Virginia



Scientific Investigations Report 2004-5088

U.S. Department of the Interior
U.S. Geological Survey

Front cover image: U.S. Geological Survey digital orthophoto quarter quadrangles (1996) showing the Ohio River and Parkersburg, West Virginia.

Geohydrology and Simulation of Ground-Water Flow in Ohio River Alluvial Aquifers near Point Pleasant, Lubeck, Parkersburg, Vienna, Moundsville, and Glendale, West Virginia

By Mark D. Kozar and Kurt J. McCoy

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Office of Environmental Health Services

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U.S. Geological Survey

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Conversion Factors and Datum

Multiply	By	To obtain
Length		
inch (in.)	2.54	centimeter (cm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
Area		
acre	0.4047	hectare (ha)
square mile (mi^2)	2.590	square kilometer (km^2)
Volume		
gallons per minute (gpm)	0.06308	liters per second (L/sec)
million gallons per day (Mgal/d)	3,785	cubic meter (m^3/d)
inch per year (in/yr)	2.54	centimeter per year (cm/yr)
cubic foot (ft^3)	0.02832	cubic meter (m^3)
Hydraulic conductivity		
foot per day (ft/d)	0.3048	meter per day (m/d)
Transmissivity*		
foot squared per day (ft^2/d)	0.09290	meter squared per day (m^2/d)

Vertical coordinate information is referenced to the *insert datum name (and abbreviation) here, for instance, "North American Vertical Datum of 1988 (NAVD 88)."*

*Hydraulic Conductivity: The standard unit for hydraulic conductivity is cubic foot per day per square foot of aquifer cross-sectional area ($ft^3/d/ft^2$). In this report, the mathematically reduced form, feet per day (ft/d), is used for reference. Likewise, transmissivity, which is the hydraulic conductivity multiplied by the saturated thickness of the aquifer, is expressed in the form square feet per day (ft^2/d).

Geohydrology and Simulation of Ground-Water Flow in Ohio River Alluvial Aquifers near Point Pleasant, Lubeck, Parkersburg, Vienna, Moundsville, and Glendale, West Virginia

By Mark D. Kozar *and* Kurt J. McCoy

Abstract

Ground-water flow was simulated for four areas in alluvial aquifers bordering the Ohio River in western West Virginia. The four ground-water-flow models included well fields for the Point Pleasant, Camp Conley, Lubeck, Parkersburg, Vienna, Moundsville, and Glendale public water systems. The models were developed to assess the direction and rate of ground-water flow to public supply wells in the well fields and to assess the effects of large ground-water withdrawals on the ground-water-flow system. The models can be used by water resources managers to develop source-water protection areas for the public supply wells in the study area and in other Ohio River alluvial aquifers. In addition, results of this investigation may be used to help assess the potential rate and movement of nonreactive contaminants in emergency situations, such as a chemical release resulting from a railway or highway accident. Many of the well fields discussed in this report are near transportation corridors and chemical manufacturing facilities.

The alluvial aquifer along the Ohio River has the capacity to yield millions of gallons of water per day to wells completed either in the banks of the Ohio River or as lateral collectors extending beneath the river. Withdrawal of large quantities of ground-water by pumping wells completed in the alluvium can result in large cones of depressions, alter normal flow patterns, and induce infiltration of water from the river towards pumping wells. During high-water events, such as floods, the normal hydraulic gradient can be temporarily altered, and flow to the alluvium from the river can be induced.

Glacial outwash deposits of sand and gravel form the primary aquifer that is tapped as a source of ground water not only for public water systems but also for use by industry, agriculture, commercial facilities, and in rare instances, by residential home owners. Fluvially deposited fine-grained silts and clay, deposited mostly as a result of floods, typically overlie the glacial outwash deposits and form a confining layer. The glacial outwash and fine-grained silt and clay layers form a series of terraces in the alluvium between the Ohio River and the nearby Pennsylvanian and Permian-age bedrock uplands.

Recharge to the alluvium can occur from several sources including seepage from adjacent bedrock, leakage from overlying tributary streams, induced infiltration of water from the Ohio River as a result of pumping, flow from the river to the alluvium due to a reversal of hydraulic gradient during floods, and from precipitation falling on the alluvium. Recharge from adjacent bedrock and leakage from overlying tributary streams was negligible. Induced infiltration of river water and precipitation are the major sources of recharge to the alluvial aquifer. Induced infiltration of water from the Ohio River accounted for various amounts of water pumped from the following well fields: Parkersburg (75 percent), Glendale (72 percent), Moundsville (50 percent), Lubeck (39 percent), Vienna (7 percent), and Point Pleasant (4 percent) well fields. The remainder of the recharge was from precipitation falling on the alluvium. None of the water withdrawn from the Camp Conley well field is derived from infiltration of river water.

Generally, the composition of alluvial sediments along the Ohio River between Huntington, West Virginia and Pittsburgh, Pennsylvania become coarser further to the north. Because the glacial outwash deposits in alluvial flats in the northern part of the study area were closer to the Laurentide Ice Sheet, they are coarser grained than those in the alluvial flats further to the south. Consequently, the hydraulic conductivity of alluvial aquifers to the north (300 to 500 ft per day (ft/d)) are typically higher than those to the south (75 to 300 ft/d).

Introduction

Commercial and industrial facilities, many cities, and some domestic residences rely on the high-yielding alluvial aquifers of the Ohio River for public and industrial water supplies. Wells in this area commonly produce several hundred to thousands of gallons per minute (gpm) of water. Four of he state's largest public ground-water supply systems, which are in Marshall, Mason, and Wood Counties, rely on wells that penetrate the alluvial terraces of the Ohio River. The alluvial terraces consist of poorly to well-sorted sand, silt, clay, and gravel deposits overlying river-scoured Pennsylvanian or Permian-age bedrock. In such highly permeable sediments, numerous sources pose potential threats to ground-water supplies, including pesticides and nitrates from agriculture, pathogens such as bacteria and viruses from leaking sewer lines and septic systems, and industrial chemicals from production and processing plants. In addition, numerous transportation corridors cross the area including railroads, highways, and barge traffic on the Ohio River. Numerous industrial chemicals as well as petroleum products commonly are transported along these corridors

and could pose potential threats to ground-water supplies if spilled within well-capture zones.

In 1996, amendments to the Safe Water Drinking Act (U.S. Environmental Protection Agency, 2004) were passed to address growing concern of possible contamination of drinking-water sources. This mandate, enforced by state and federal regulatory agencies, required public ground-water- supply systems to delineate recharge areas as part of the Wellhead Protection Program. Most of the recharge and wellhead protection areas (WHPAs) in the study area had been previously delineated by the West Virginia Bureau for Public Health- Office of Environmental Health Services (WVBPH-OEHS) using simplified analytical ground-water-flow models. Although such simplified analytical models provide a good first approximation of potential WHPAs, they typically cannot effectively simulate ground-water flow in complex hydrogeologic settings. Numerical ground-water-flow modeling using three dimensional models such as the U.S. Geological Survey (USGS) MODFLOW (McDonald and Harbaugh, 1988) software, provides a tool from which more accurate simulations of ground-water flow and delineations of WHPAs can be developed. In 2001, the USGS began a project to develop ground-water-flow models in cooperation with the WVBPH-OEHS. The major objective of this investigation was to assess ground-water-flow rates and directions in alluvial aquifers in four areas along the Ohio River in the western part of West Virginia. The project spanned from January 2001 through December 2003.

Purpose and Scope

This report presents results from four separate numerical ground-water-flow models of alluvial aquifers along the Ohio River. The models simulate ground-water flow rates and directions and were used to estimate the contribution of water to municipal well fields either from recharge to the alluvium or from induced infiltration of water from nearby streams in Point Pleasant, Lubeck, Parkersburg, Vienna, Moundsville, and Glendale, West Virginia. Five-year time-of-travel zones based on particle tracking are included to assist water-resources managers in delineating source-water protection areas for the public water systems in the modeled areas. Because this report incorporates the likely maximum and minimum extremes in permeability of alluvial sediments likely to be encountered along the entire West Virginia reach of the Ohio River, the results of this study may be applicable to similar alluvial aquifers along the Ohio River in West Virginia, Pennsylvania, and Ohio as far south as Ironton, Ohio.

To determine ground-water-flow directions and time of travel to public water supplies in alluvial aquifers along the Ohio River, some components of the computer program Visual MODFLOW version 2.8.2 (Waterloo Hydrogeologic, 2000) were used. The software is a commercially derived graphical user interface to the USGS MODFLOW-96 three-dimensional finite-difference ground-water-modeling software (Harbaugh and others, 1996). The software also provides an interface to MODPATH (Winston, 1999), which is a USGS particle-tracking program. Visual MODFLOW was used to simulate ground-water flow and to provide estimates of hydraulic head in the aquifers analyzed. Ground-water-flow directions, rates of flow, effects of ground-water withdrawal, and hydrologic budgets were simulated with the Visual MODFLOW software. Particle tracking, using the MODPATH module of the program, was conducted to estimate flow paths to individual public supply wells.

The models within this report were primarily developed from existing data, especially data from contamination investigations conducted in support of U.S. Environmental Protection Agency (USEPA) RCRA (Resources Conservation and Recovery Act) and CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) investigations. Due to budget and time constraints, only minimal field data was collected during the course of the investigation, mainly to provide water-level and stream-flow data in areas where such data was not available. A large quantity of aquifer test, well log, water level, and other data was also available from USGS databases and published reports. Finally, well construction, pumpage, and other hydrogeologic data were retrieved from each specific water plant included within this report.

The primary objective of the study was to estimate the rate and direction of ground-water flow by numerical simulation of the alluvial aquifer. A second objective was to simulate ground-water-flow paths to public supply wells using particle-tracking software. These preliminary ground-water-flow models will provide data and information to water-resources managers that will help them delineate wellhead protection areas for public supply wells.

Previous Investigations

Early ground-water-flow models of the Ohio River alluvium include digital simulations of drawdown in Kentucky by Grubb, (1975) and Kernodle, (1977). A steady-state and transient model of ground-water flow in the Louisville, Kentucky area was completed by Lyverse and others (1991). Unthank (1996, 1998) and Unthank and Nelson (1999) modeled alluvial aquifers in northwestern Kentucky to estimate hydraulic properties, recharge, and discharge to the Ohio River. In a three-layer model, the Corporate Remediation Group (2003) simulated ground-water flow at an industrial site in Washington Bottom, West Virginia to evaluate and predict ground-water flow under various pumping stresses. Burgess and Niple (1996) modeled seven scenarios in the Little Hocking, Ohio area to determine WHPAs and to evaluate the fate and transport of potential contaminants in the aquifer. CDM (2002a) prepared a ground-water-flow model for the Vienna area to assess the potential transport of perchloroethylene (PCE) in the aquifer.

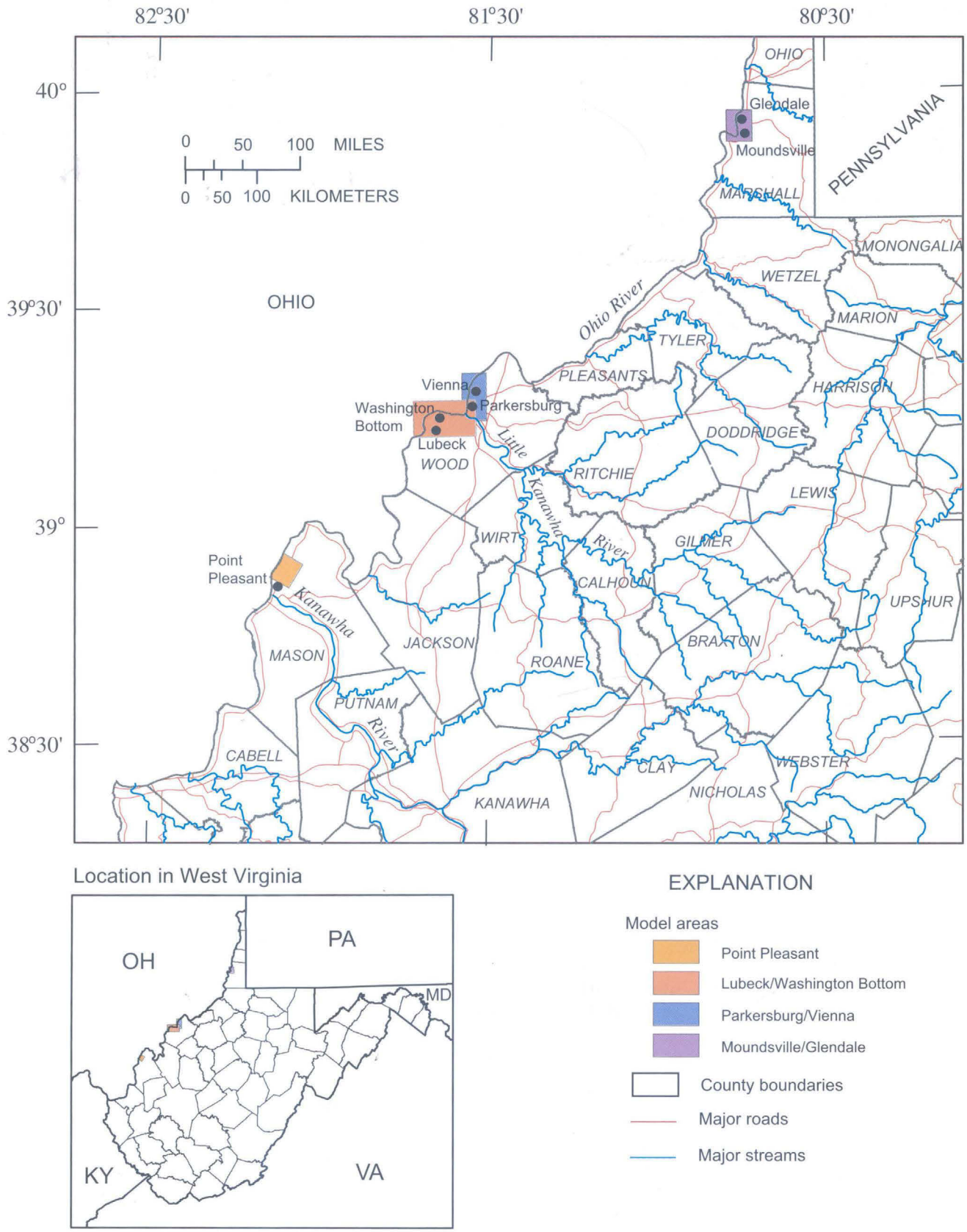


Figure 1. Locations of study areas where ground-water flow was simulated, West Virginia.

Description of Study Area

Four alluvial river terraces along the Ohio River, commonly referred to as bottoms, were identified for modeling of ground-water flow to public ground-water-supply systems (fig. 1). Bottom areas are defined as low-lying, flat alluvial deposits along past and present river floodplains. Descriptions of each area are from Carlston and Graeff (1956). The modeled areas are all in the alluvial sand and gravel deposits of the Ohio River and its terraces and extend over a 166-mile (mi) reach of the Ohio River from Point Pleasant in Mason County to Glendale in Marshall County, West Virginia.

Point Pleasant

The Point Pleasant Bottom in Mason County, West Virginia, is 12.5 mi long from the mouth of the Kanawha River near the City of Point Pleasant. At its widest point, abandoned river channels extend into the surrounding bedrock hills for up to 2.8 mi. Normal pool stage of the river in the area is 538 ft. Records from 29 wells in the northern areas show about 30 to 40 ft of sands and gravels overlying the bedrock surface. The sands and gravels are overlain by clays, sands, and sandy clays. In the southern areas, clays and sandy clays cover sands and gravelly sands 25 to 48 ft thick. In the area immediately adjacent to the Point Pleasant well field, confining units typically are absent, and the aquifer is more or less unconfined. Three well tests conducted in the area indicated saturated thicknesses of 28 to 41 ft and a mean hydraulic conductivity of 340 ft/d (Cross and Schemel, 1956).

Lubeck/Washington Bottom

Also called Washington Bottom after original owner George Washington, the Lubeck Bottom is 5.2 mi long and 0.7 mi wide and is in Wood County, West Virginia. The wooded, rural area includes land used for agriculture, chemical and plastic production, and a 250-acre closed solid-waste landfill. The Ohio River normal pool elevation in the area is approximately 582 ft. Test borings show basal sands and gravels 19 to 77 ft thick overlain by 14 to 35 ft of clays, sandy clays, and silts. Thicker sands and gravels are found under higher terraces. An aquifer test conducted by the USGS yielded an estimated hydraulic conductivity of approximately 334 ft/d (Cross and Schemel, 1956).

Parkersburg/Vienna

The Parkersburg/Vienna Bottom extends north 6.5 mi from the mouth of the Little Kanawha River. Its width is 0.8 mi, narrowing toward the small town of Vienna. Normal pool elevation at the dam is approximately 582 ft. Parkersburg and Vienna are just north of the Lubeck/Washington Bottom area and are also in Wood County. Three test borings at the dam show fine to coarse sands and gravels 25-27 ft thick, overlain by loam and clay in places. At the Parkersburg well field, the alluvium thins to about 60 ft, containing 15 to 25 ft of permeable sands and gravels overlain by varying thicknesses of fine sand, silt, and clay (Jeffords, 1945). Overlying clays and silty clays are generally 5 to 15 ft thick. Aquifer tests conducted at four locations in the Parkersburg area indicate a mean hydraulic conductivity near 850 ft/d and saturated thickness of approximately 21 ft (Cross and Schemel, 1956). Land use on the alluvium in Parkersburg and Vienna is highly developed with numerous commercial and industrial facilities and residential homes.

Moundsville/Glendale

The Moundsville/Glendale Bottom is a cut-off meander channel extending 3.5 mi along the Ohio River in Marshall County, West Virginia. The predominantly residential Glendale occupies the relatively narrow (0.5 mi wide) northern part of the bottom. By comparison, a broad circular southern part at Moundsville has a width of more than 3 mi. Normal pool stage of the Ohio River in the area is approximately 623 ft. Well depths range from 70 to 100 ft and wells are known to have penetrated 100 ft of gravel near the middle of the meander (Cross and Schemel, 1956). Pumping rates above 100 gal/min are typical for industrial wells drilled in the thick gravel bed. Saturated thicknesses generally range from 30 to 40 ft.

Geohydrology

The geology of the four study areas is typified by highly permeable sand and gravel glacial outwash deposits. The deposits have the capacity to yield millions of gallons of water per day to wells, especially to wells completed in river-bank deposits or completed as long, horizontal, radial-collector wells extending beneath the river bed. Residents of the Ohio River Valley have been withdrawing water from wells completed in these sediments since the mid-to late 1800's.

Geology

Alluvial aquifers of the Ohio River have been of interest for more than 100 years. Hennen (1909), Grimsley (1910), and Krebs (1911) provided county reports with detailed geologic information including lithologic, stratigraphic, and structural data of the study area along the Ohio River. Deutsch and others (1966) published a comprehensive survey of ground-water resources for the Ohio River Basin and several of its larger tributaries. The West Virginia Geological and Economic Survey (WVGES) produced a three-part report including a description of Ohio Valley geology in West Virginia by Cross and Schemel (1956) and ground-water resources of the Ohio Valley in West Virginia by Carlston and Graeff (1956).

The Ohio River follows a gentle gradient along the border between West Virginia and Ohio for 277 mi before it reaches

Kentucky. Hilly terrain of south-southeast dipping Lower Permian and Pennsylvania-age rocks is dominant in the upland areas and gives way to a flood plain less than 500 ft below. Lower Permian and Pennsylvanian bedrock consists of cyclic groups of interbedded sandstones, shales, limestones, clays, and coals (Cross and Schemel, 1956). Local rises in bedrock elevation have been ascribed to changes from older limestone strata to younger more resistant sandstones (Cross and Schemel, 1956).

Pleistocene alluvium from glacial outwash deposits of the pre-, early-, and late-Wisconsinan age have been reworked and deposited at lower elevations forming terraces (Simard, 1989). Carlston and Graeff (1956) found the maximum thickness of the alluvium beneath the highest terraces is 120 ft, and that the thickness of the alluvium generally decreases in the downstream direction.

Pleistocene sands and gravels directly overlying the bedrock surface are thought to be the result of continental glaciation of the northern Ohio River headwaters. Jeffords (1945) suggested these sediments are from 15 to 25 ft thick in well-fields in the Parkersburg area. Pleistocene sand and gravels in Marshall County to the north are similar in thickness (Cross and Schemel, 1956). Hall (1917) found sediments in Parkersburg to be firmly cemented in the 18 in. above bedrock.

Heterogeneous alluvial deposits ranging from gravels to clays overlie the Pleistocene glacial deposits. Generally, the alluvium thickens away from valley walls and near the mouth of tributary streams. North of Parkersburg, the alluvial fill consists mainly of gravels, sands, and gravelly sands whereas fine sands, silts, and clays dominate sediments downstream from Parkersburg. Lenticular interbeds of varying composition are not uncommon throughout the alluvium (Cross and Schemel, 1956). Surface sediments consist of fine-grained sands to silts and clays of Holocene age and average 10 ft in thickness, sometimes up to 40 ft in the flood plain (Cross and Schemel, 1956). This poorly permeable layer serves to limit recharge from precipitation, and in places acts as a confining layer (Cross and Schemel, 1956). Simard (1989) identified a sequence of five river terraces formed as the channel shifted back and forth cutting into the Wisconsinan deposits. Three flood plains also were identified. Radiocarbon ages of the fluvial and alluvial sediments ranged from 5,000 years to more than 40,000 years (Simard, 1989).

Hydrology

The high-yielding alluvial aquifers of the Ohio River Valley have been extensively studied. Jeffords (1945) was one of the first to investigate the effect of river stage on ground-water levels in the adjacent alluvium. He concluded that a large amount of recharge to the alluvial aquifer was derived from the river when the Ohio River was at high stage. Induced infiltration from the Ohio River to pumping wells in the aquifer is likely where such wells are close to the river, although local heterogeneity of river-bottom sediments may reduce the connection (Mathes and others, 1995; Jeffords, 1945). Tributaries to the Ohio River may provide additional recharge as they flow across alluvial and fluvial deposits (Mathes and others, 1995).

Recharge from tributary streams to underlying alluvial aquifers in the region has not been well quantified. Discharge was measured at two tributary streams during this investigation both at the point where the streams flowed onto the alluvium and at a second point just prior to discharge to the Ohio River. Both streams are characteristic of streams which flow across alluvium and discharge to the Ohio River. The change in flow was not appreciable between upstream and downstream sites on either stream. This may indicate that tributary streams are armored to a certain extent suggesting tributary recharge is negligible in most cases. Also, throughout the region, ground-water levels typically are far below the base of tributary streams and significant gains or losses to and from streamflow are not anticipated.

In the absence of significant recharge from tributary streams and from bedrock, the majority of recharge under ambient conditions is likely from precipitation. A large percentage of precipitation is lost to surface runoff and evapotranspiration. Evapotranspiration in the Louisville, Kentucky, area accounted for 65 percent of precipitation; the remaining 35 percent was almost equally divided between infiltration and runoff (Rorabaugh, 1949). Infiltration from the river can occur naturally when local hydraulic gradients are reversed during high river stages, which is common during floods, typically in winter and spring. Under base-flow conditions, however, hydraulic gradients generally are from the alluvium towards the river. Discharge from surrounding bedrock aquifers serves as an additional source of recharge but is likely small in comparison to that derived from precipitation (Mathes and others, 1995).

In a survey of 183 wells in Ohio River alluvium of West Virginia, Kozar and Mathes (2001) found an average saturated thickness of 35.6 ft and average static water level of 43 ft below land surface. Well yields ranged from 30 to 5,500 gal/min. In a test of 19 wells, transmissivity of the aquifer ranged from 130 to 1,750 square ft per day (ft^2/d) with average saturated thickness of 25 ft between Parkersburg and Point Pleasant (Carlston and Graeff, 1956). Transmissivity ranged from 540 to 59,000 ft^2/d in wells analyzed by Kozar and Mathes (2001). The same report provided a median storage coefficient of 0.20 for Ohio River alluvium, indicative of an unconfined aquifer. Mean transmissivities of 750, 4,200, and 7,500 ft^2/d were reported by Corporate Remediation Group (2003), Mathes and others (1995), and Burgess and Nipple (1996), respectively.

Ground-Water Levels and Flow Directions

Ground-water levels vary throughout the alluvium but generally indicate a hydraulic gradient towards the Ohio River under normal conditions (Kazmann and others, 1943). Under normal pool conditions, in the absence of significant pumping, hydraulic gradients are almost exclusively towards the river. Exceptions occur during floods or other high-water events.

When the stage of the Ohio River increases markedly over a short period of time such as during a flood, a reversal in the normal hydraulic gradient occurs and river water can flow into and recharge the alluvium. These effects usually are very short in duration and are not believed to significantly alter the hydrologic budget in the alluvium; however, such effects may have pronounced effects on the flow of contaminants in the alluvium. In addition, large pumping centers can cause very large cones of depression to form, which may result in lowering the water level in the aquifer to levels below that of the normal pool stage of the Ohio River.

Ground-Water Recharge

Estimates of ground-water recharge for alluvial aquifers bordering the Ohio River are highly variable. An early estimate of recharge for the alluvial aquifer near Louisville, Kentucky was 9.2 inches per year (in/yr) (Rorabaugh, 1949). Estimates of recharge for bedrock aquifers in the region based on streamflow hydrograph analysis ranged from 6.7 to 9.6 in/yr (Kozar and Mathes, 2001), or 16 to 24 percent of the average annual precipitation of 40.7 in. (NOAA, 2002) at Parkersburg. Recharge rates for alluvial aquifers with little silt or clay could be potentially much higher. A calibrated ground-water-flow model for the Vienna area from prior modeling studies indicated recharge rates in the range from 6.9 to 11.5 in/yr (CDM Corporation, 2002b). Results of calibrated ground-water-flow models in the Washington Bottom area near Lubeck ranged from 4 in/yr on Holocene flood plains to 20 in/yr in colluvial deposits near the margins with upland bedrock outcrops at the edge of the valley (Corporate Remediation Group, 2003). A test conducted in the Weirton area for a large collector well assumed a recharge rate of approximately 11.4 in/yr (Ranney Corporation, 1981). In the wellhead protection plan for the Little Hocking, Ohio, well field, a recharge rate of 12 in/yr was assumed (Burgess and Niple, 1996). Estimates of ground-water recharge for alluvial aquifers along the Ohio River in West Virginia applied to models in this report range from 0.1 to 11.8 in/yr (Table 1) and vary based on the composition of the alluvium in certain areas. Alluvial deposits with a high percentage of sand and gravel tend to have recharge rates approaching 12 in/yr whereas deposits with a large percentage of silt and clay may be as low as 3 in/yr.

In addition to recharge from precipitation, the alluvial aquifers along the Ohio River also may receive significant infiltration directly from the Ohio River and possibly to a minor extent from tributary streams crossing the alluvium (Jeffords, 1945). As previously discussed, induced infiltration can take place under two scenarios, either when the cone of depression for a pumping well lowers water levels in the aquifer to depths below the stage of the Ohio River or when the normal hydraulic gradient is reversed due to flooding or high river stages. Induced infiltration of water directly from the Ohio River can contribute the majority of water yielded to wells, especially from large collector wells, which may far exceed that possible from precipitation alone.

Table 1. Recharge rates used in ground-water-flow simulations of various alluvial aquifer settings.

[in/yr, inches per year]

Description of model areas	Recharge rate (in/yr)
Parkersburg/Vienna Area	
Parkersburg well field and lower terraces	6.0
Parkersburg upper terraces	3.0
Vienna Wellfield	9.0
Point Pleasant Area	
Point Pleasant oxbow	11.0
Point Pleasant well field and lower terraces	12.0
Lubeck Area	
Lubeck well field	7.0
Washington Bottom upper terraces	9.8
Blennerhassett Island	11.0
Reworked Ohio River bottom sediments	0.1
Moundsville/Glendale Area	
Moundsville well field	11.0
Glendale well field	11.0

Aquifer Characteristics

Aquifer characteristics are hydraulic properties of aquifers and include transmissivity, hydraulic conductivity, saturated thickness, storativity, porosity, and depth to water. For alluvial aquifers along the Ohio River, existing data and reports were compiled and used for simulating ground-water flow and for particle tracking. The alluvial aquifers bordering the Ohio River vary in the composition of sediments but generally share many common characteristics. All the aquifer characteristics used for the simulations described in this report are listed in table 2. The only aquifer characteristic that changes to a significant degree in the alluvium is hydraulic conductivity. Because glacial outwash deposits in the northern part of the study area are composed of coarser grained sediments than the alluvial deposits further to the south, the transmissivity and hydraulic conductivity of alluvial flats to the north typically are higher than those to the south. Fine-grained flood-plain sediments of fluvially deposited silt and clay overlie the coarser grained glacial outwash deposits in many areas (Simard, 1989).

Table 2. Aquifer characteritics used in ground-water-flow simulations of various alluvial settings.

[ft, feet; bls, below land surface; ft^{-1}, reciprocal feet; ft/d, feet per day; n/a, not applicable].

Model areas	Hydraulic conductivity (ft/d)	Thickness of alluvium (ft)	Depth to water (ft bls)	Porosity
Point Pleasant Area				
Point Pleasant well field	350	75-95	40-55	0.30
Point Pleasant oxbow	87	55-75	41-55	.35
Camp Conley well field	83	75-95	42-48	.30
Point Pleasant confining unit	0.1	39-58	9-45	.35
Lubeck/Washington Bottom Area				
Lubeck well field	190	60-85	24-35	.30
Washington Bottom well fields	190	60-65	33-40	.30
Washington Bottom confining unit	1-4	80-105	60-80	.35
Washington Bottom colluvium	190	85-95	65-80	.30
Blennerhassett Island well field	250	50-58	27-40	.30
Blennerhassett Island confining unit	20	0-15	27-40	.30
Reworked Ohio River bottom sediments	15	45-55	n/a	.30
Parkersburg/Vienna Area				
Parkersburg well field	175	45-65	30-40	.30
Parkersburg confining unit	1-2	65-95	50-68	.35
Vienna well field	300	70-80	30-58	.30
Vienna confining unit	3	65-100	50-68	..35
Moundsville/Glendale Area				
Moundsville well field	500	55-80	20-30	.30
Glendale well field	500	65-85	30-40	.30
Moundsville confining unit	1	65-90	30-55	.35
Glendale confining unit	1	65-100	30-55	.35

Ground-Water Withdrawals

Ground water is withdrawn from Ohio River alluvial aquifers for many purposes including public water supplies, public-service water districts in rural areas, irrigation of crop land, industrial water for processing, power-plant cooling water, and less commonly, for small commercial and domestic supplies. For this investigation, ground-water-flow models were developed mostly for large municipalities in Point Pleasant, Lubeck, Parkersburg, Vienna, Moundsville, and Glendale, West Virginia and for the Camp Conley Public Service District in Mason County. Average rates of ground-water withdrawal for these systems and the few smaller point sources near these well fields are listed in table 3.

The largest public supplier in the study area is the City of Parkersburg that withdraws approximately 4,800,000 gallons per day (gal/d) of water and the smallest supplier is the Camp Conley Public Service Water District which withdraws only 34,000 gal/d. Two large chemical manufacturing facilities in the area immediately north of the Lubeck well field withdraw approximately 8,800,000 gal/d and 2,060,000 gal/d, respectively. Such large withdrawals are common for industrial sites along the Ohio River and include facilities that manufacture steel, plastics, chemicals, and other products.

Simulation of Ground-Water Flow

Ground-water flow for four distinct alluvial aquifers that border the Ohio River in West Virginia was simulated for this investigation. The modeled areas from south to north are 1) Point Pleasant in Mason County, 2) Lubeck and Washington Bottom in Wood County, 3) Parkersburg and Vienna in Wood County, and 4) Moundsville and Glendale in Marshall County. The four model areas are in an approximate 150-mi stretch of the Ohio River in West Virginia. Where appropriate, model simulations include parts of the alluvial aquifer in Ohio. This was done to assess the effects of pumping centers on either side of the Ohio River on the hydraulic head distribution throughout the aquifer. Large pumping centers on one side of the Ohio River may affect head distribution in the alluvial aquifer on the opposing bank if large amounts of water are withdrawn from the aquifer. This is the case for the Lubeck/Washington Bottom and the Parkersburg/Vienna models. Pumping in the Point Pleasant and Moundsville/Glendale areas was not sufficient to have major effects on head distributions in the aquifer. Also, alluvial sediments are not exposed on the Ohio side of the river in these areas.

Conceptual Models

The conceptual model of ground-water flow for the four areas outlined in this report is fairly straightforward. Because the alluvial materials are primarily sand and gravel with overlying deposits of silts and clays, the aquifer is expected to be homogenous. Some variability between vertical and hydraulic conductivity is expected due to stratification in the aquifer as thin lenses of clay or sand are commonly interspersed in the sand and gravel aquifer matrix. Overall, flow in the aquifer should meet assumptions of Darcian flow.

Flow to the aquifer is possible from several sources including infiltration of precipitation (recharge), bedrock seepage, direct infiltration from the Ohio River during floods, and leakage from tributary streams crossing alluvial sediments. For the areas described in this report, seepage from bedrock aquifers was not considered a major source of inflow because the hydraulic conductivity of bedrock aquifers in the region is typically low when compared to that of the alluvial aquifers. Seepage from bedrock aquifers was therefore not simulated in any of the models. Although infiltration of flood waters from the Ohio River may be a source of water to the aquifer, under normal conditions most ground water discharges to the river. Where pumping wells are near the river, induced infiltration of water directly from the river is common. Seepage from overlying tributary streams to the underlying alluvial aquifer is considered minimal based on discharge measurements made during this investigation and the fact that most tributary streams in the modeled areas were dry for substantial periods during this investigation. Precipitation is therefore the main source of recharge to the alluvial aquifers.

Of the 40.7 inches of precipitation (NOAA, 2002) that typically falls annually on the area, 9-12 in. may be expected to infiltrate and recharge alluvial aquifers, with lesser amounts of recharge in areas characterized by thick sequences of silt and clay. The remaining 28.7 to 31.7 in. of precipitation is either lost to streams as surface runoff or lost to evaporation or transpiration by plants. For bedrock-dominated streams in the region, total streamflow averages 18.7 (in/yr). Of the 18.7 in/yr, approximately 11.7 in. (29 percent) is attributed to baseflow discharge and 7 in. (17 percent) is attributed to surface runoff. Evapotranspiration would therefore account for approximately 22.0 in. (54 percent) of the precipitation lost annually. Most recharge takes place in the colder months from November through April when evaporation and transpiration by plants are minimal. Only minor amounts of ground-water recharge typically occur in the warmer months under normal conditions.

Under normal conditions, ground water is expected to flow from upland terraces towards the Ohio River or adjacent tributary streams (Kazmann and others, 1943). This flow pattern can be altered by two processes. First, large cones of depression may form around pumping centers withdrawing large volumes of water (Kazmann and others, 1943). This large cone of depression would be expected for large water systems withdrawing millions of gallons of water per day. Smaller systems that only withdraw a few tens of thousands of gallons of water per day that would have flowed to the river would not be expected to produce cones of depressions large enough to cause a significant flow of water from the river into the alluvium. The second process that may alter the typical ground-water-flow gradient are high water events, especially during floods. During a high-water event on the Ohio River, water levels in the aquifer

Table 3. Pumping rates used in ground-water-flow simulations.

[gal/d, gallons per day; map id, map identifier as used on illustrations within this report].

Local well name *(map id)*	Pumping rate (gal/d)
Parkersburg/Vienna Area	
Parkersburg Collector # 1 *(1)*	1,274,933
Parkersburg Collector # 4 *(2)*	1,274,933
Parkersburg Collector # 3 *(4)*	1,147,440
Parkersburg Collector # 5 *(3)*	1,083,694
Vienna # 7 *(15)*	204,750
Vienna # 8 *(8)*	204,750
Vienna # 9 *(5)*	204,750
Vienna # 10 *(6)*	204,750
Vienna # 11 *(14)*	195,300
Vienna # 13 *(12)*	195,300
Vienna # 14 *(13)*	195,300
Golf Course # 1 *(11)*	20,000
Golf Course # 2 *(10)*	63,330
Plant Well *(7)*	29,900
Church Well *(9)*	65,000
Lubeck/Washington Bottom Area	
Lubeck - Well A *(6)*	110,841
Lubeck - Well B *(5)*	110,841
Lubeck - Well C *(4)*	110,841
Lubeck - Well D *(3)*	110,841
Lubeck - Well E *(2)*	110,841
Lubeck - Well F *(1)*	110,841
Chemical Plant #1 - Well 1 *(22)*	98,921
Chemical Plant #1 - Well 2 *(23)*	98,921
Chemical Plant #1 - Well 3 *(24)*	98,921
Chemical Plant #1 - Well 4 *(15)*	98,921
Chemical Plant #1 - Well 5 *(25)*	98,921
Chemical Plant #1 - Well 6 *(26)*	1,273,889
Lubeck/Washington Bottom Area	
Chemical Plant #2 - Well 1 *(18)*	144,010
Chemical Plant #2 - Well 2 *(19)*	158,411
Chemical Plant #2 - Well 3 *(21)*	172,812
Chemical Plant #2 - Well 4 *(17)*	144,010
Chemical Plant #2 - Well 5 *(16)*	144,010
Chemical Plant #2 - Well 6 *(20)*	144,010
Chemical Plant #2 - Well 7 *(9)*	144,010
Chemical Plant #2 - Well 8 *(8)*	144,010
Chemical Plant #2 - Well 9 *(7)*	144,010
Chemical Plant #2 - Well 10 *(14)*	144,010
Chemical Plant #2 - Well 11 *(13)*	144,010
Chemical Plant #2 - Well 12 *(12)*	144,010
Chemical Plant #2 - Well 13 *(11)*	144,010
Chemical Plant #2 - Well 14 *(10)*	144,010
Point Pleasant Area	
Point Pleasant Well # 7 (5)	115,200
Point Pleasant Well # 1 (4)	241,000
Point Pleasant Well # 2 (3)	262,800
Point Pleasant Well # 3 (2)	262,800
Point Pleasant Well # 4 (1)	208,800
Camp Conley PSD Well (6)	34,000
Moundsville/Glendale Area	
Recovery Well (10)	824
Glendale # 1 *(7)*	131,000
Glendale # 2 *(6)*	131,000
Hospital # 1 *(8)*	35,250

Table 3. Pumping rates used in ground-water-flow simulations.—Continued

[gal/d, gallons per day; map id, map identifier as used on illustrations within this report].

Local well name *(map id)*	Pumping rate (gal/d)	Local well name *(map id)*	Pumping rate (gal/d)
Chemical Plant #1 - Well 7 *(27)*	120,530	Hospital # 2 *(9)*	35,250
Chemical Plant #1 - Well 8 *(28)*	229,280	Moundsville # 14 *(1)*	358,000
Chemical Plant #1 - Well 9 *(29)*	99,969	Moundsville # 8 *(2)*	572,000
Chemical Plant #1 - Well 10 *(31)*	355,248	Moundsville # 12 *(3)*	428,000
Chemical Plant #1 - Well 11 *(32)*	212,107	Moundsville # 12a *(4)*	572,000
Chemical Plant #1 - Well 12 *(30)*	292,275	Moundsville # 9 *(5)*	428,000

would be expected to rise to above normal levels. This would result in a temporary reversal of the normal gradient and cause water to infiltrate the alluvium from the adjacent Ohio River. These events are short in duration (typically only a few days) and result in only a temporary change in the hydraulic gradients in the alluvium. Water levels would return to normal quickly after the Ohio River stage had receded to normal pool stage.

Numerical Models

Visual MODFLOW Version 2.8.2 (Waterloo Hydrogeologic, Inc., 2000) was used in this study to simulate ground-water flow. This program incorporates MODFLOW-96 (Harbaugh and McDonald, 1996), which is a three-dimensional ground-water-flow model, and MODPATH (Winston, 1999), which is a particle-tracking routine. Both software packages were developed by the USGS. Visual MODFLOW is an enhanced version of MODFLOW-96 that includes MODPATH with additional graphical user interfaces attached to aid model use.

The normal assumptions with regard to ground-water flow in porous media were considered applicable to the study area. Ground-water flow is assumed to be laminar. The aquifers simulated were also assumed to be homogenous and isotropic in representative cells; on a larger scale, local variability in aquifer properties has a negligible effect on the overall rate and direction of simulated ground-water flow. Stratified lenticular deposits of silt and clay occur locally in the aquifer and result in a horizontal hydraulic conductivity that is several times more permeable than in the vertical direction. Although this difference between horizontal and vertical hydraulic conductivity has not been quantified in the study areas, a horizontal-to-vertical hydraulic conductivity ratio of approximately 10:1 was used for all ground-water simulations.

All simulations of ground-water flow for this investigation were developed as steady-state models. Transient effects were not considered to be a major concern, because the models did not incorporate storage or solute transport. Transient effects, such as rising stages on the Ohio River, have an effect on ground-water flow but their occurrence and duration are so infrequent and short that a steady-state model can effectively simulate ground-water flow for the four modeled areas. However, estimates of the 5-year time-of-travel paths to public supply wells were made as part of the steady-state models developed for this investigation. The modeled areas were generally selected where extensive pre-existing hydrogeologic data sets were available. Data-collection activities were kept to a minimum due to the large amount of available data for most study areas. Field data-collection activities performed during this project concentrated on investigating hydrologic processes that were poorly understood, such as the effect of tributary streams, and on compiling well construction, maintenance, and pumping records from the major public, industrial, and commercial water suppliers in the modeled areas. Only the Moundsville/Glendale and Parkersburg areas required field investigations to document water levels for calibration purposes.

Particle-tracking routines used in this investigation require data on aquifer porosity. Unfortunately, few data are available documenting the porosity of sediments in alluvial deposits along the Ohio River. Nevertheless, the sediments are similar to many sand and gravel deposits in other areas in the country. Average porosity for alluvial sediments generally ranges from 25 to 50 percent for sand and gravel and from 35 to 70 percent for silt and clay (Freeze and Cherry, 1979). Values of porosity of 25-30 percent were applied to coarse-grained sediments. Values of 30-35 percent were applied to fine-grained sediments to construct the ground-water-flow models.

Point Pleasant

The Point Pleasant model extends from the Bellmeade area on the north side of Point Pleasant, West Virginia near Ohio River mi 262. north to Eightmile Island and Ohio River mi 256. (fig. 2). The model area includes the Bellmeade area of Point

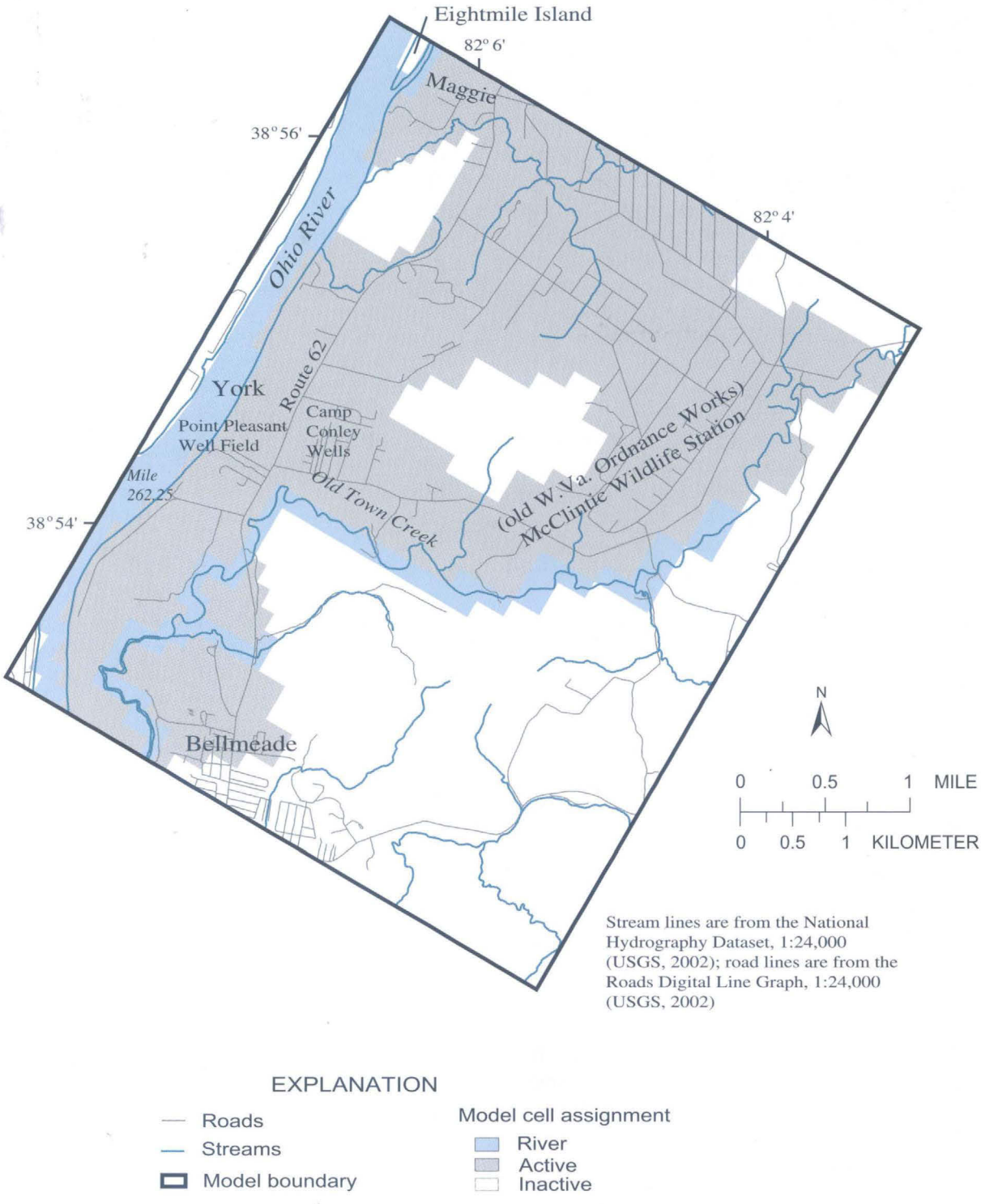


Figure 2. Location of the Point Pleasant model area, West Virginia (refer to figure 1 for general location map).

Pleasant, the southern part of the community of Maggie, the McClintic Wildlife Management area, and the Point Pleasant and Camp Conley Public Service District (PSD) well fields. A large part of the area once comprised the Point Pleasant Ordnance Works where explosives were manufactured during World War II (Kazmann and others, 1943).

Ground-water and soil contamination have been documented at several locations near the Point Pleasant and Camp Conley PSD well fields, primarily resulting from activities at the old Ordnance Works and a nearby manufacturing facility (Peter Costello, West Virginia Department of Environmental Protection, written commun., 2000). As a result of the ground-water and soil contamination at these primary sites, several hydrogeologic assessments have been conducted in support of USEPA RCRA and CERCLA investigations. A site-wide hydrogeological study of the Point Pleasant Ordnance Works (IT Corporation, 1996) included borehole logs, water-level measurements, aquifer tests, and water-quality data. An initial hydrogeologic assessment of the facility was conducted by the USGS during World War II to provide for expansion of operations (Kazmann and others, 1943). Additional data obtained included Ohio River depth soundings and bottom maps (Kent Browning, U.S. Army Corps of Engineers, written commun., 2000) and borehole logs and pumping records for the Point Pleasant Water Plant (Dan Rogers, Point Pleasant Water Department, written commun., 2000). Additional data used to calibrate and develop the ground-water-flow model for the Point Pleasant and Camp Conley areas were obtained from the files of the West Virginia Department of Environmental Protection (Peter Costello, written commun., 2000), including borehole geophysical logs and water-level data for the U.S. Army Reserve Center, and borehole logs and water levels for the manufacturing facility.

Boundary Conditions and Layers

Boundary conditions for the Point Pleasant model were different than for any of the other models presented in this report. In the Point Pleasant area some alluvial sediments were deposited in an old meander cutoff (oxbow) of the Ohio River. This oxbow has not been documented in the past, but borehole records indicate two sequences of sand and gravel separated by an intermediate layer of silt and clay. The Point Pleasant model was therefore designed as a three-layer model to simulate the effects of the intermediate silt and clay layer in the old meander cutoff. Layer 3 represents the sand and gravel alluvial aquifer from an elevation of 475 to 510 ft (fig. 3). Layer 2 extends from 510 to 570 ft and represents the intermediate silt and clay layer (also shown on fig. 3). The uppermost layer (layer 1) extends from 570 ft to land surface and represents the uppermost sand and gravel layer (fig. 4). Layer 2 essentially is not present in the area occupied by the alluvial aquifer adjacent to the Ohio River. The layers slope to higher elevations in the eastern part of the model to represent thinning of the alluvium in upland areas.

Generally, the area adjacent to the river is characterized by a fairly homogenous layer of sand and gravel. The northern part of the sand and gravel alluvial aquifer is less permeable than the southern part. It is likely that the knob of bedrock in the area to the north of the alluvial aquifer prevented the accumulation of large deposits of the more permeable sands and gravel whereas the southern part of the aquifer was exposed to reworking of sediments by the force of the Ohio River. As a result, a hydraulic conductivity of 83 ft/d was assigned to the northern part of the alluvial aquifer and a value of 350 ft/d was assigned to the southern part of the alluvial aquifer. The composition of sediments in the old meander cutoff is similar to that in the northern part of the alluvial aquifer and was assigned hydraulic conductivities (77 to 87 ft/d) similar to that for the northern part of the alluvial aquifer. The intermediate silt and clay layer was assigned a hydraulic conductivity of 0.1 ft/d.

The model consists of 59 rows and 28 columns and includes 1,652 cells (fig. 4). Approximately one third of the cells represent areas with bedrock outcrops and are inactive cells in the model. The model encompasses an area of 19,087 by 23,585 ft or approximately 16.1 square miles (mi^2). The major boundary conditions of the model consist of river cells along the Ohio River and tributary streams and inactive cells in areas where bedrock crops out. A variably spaced model grid was used with a finer density of cells in the areas of the model near active pumping wells and a coarser grid in areas of the model of less relevance. As in the other models, simulation of ground-water seepage from adjacent bedrock aquifers was considered unnecessary. Oldtown Creek is the only major tributary in the model area. Discharge measurements were made on Oldtown Creek at two locations, one in the headwaters of the basin and a second near the bridge on route 62. There was no appreciable increase or decrease in flow across the alluvial flat, indicating little interaction of the stream with the underlying alluvial aquifer.

Because there was no overlying confining unit, recharge to the alluvium in the Point Pleasant area was greater than that for either the Lubeck/Washington Bottom or Parkersburg/Vienna areas. For the model, recharge was set at 12 in/yr in the alluvial aquifer bordering the Ohio River and 11 in/yr in the area occupied by the old meander cutoff (fig. 5). Attempts to lower recharge rates below 11 in/yr were unsuccessful because the model could not calibrate to known heads with lower recharge rates.

Model Calibration and Limitations

The model of ground-water flow for Point Pleasant was calibrated by matching measured and simulated water levels. Of the four areas described in this report, the Point Pleasant area had the largest set of aquifer-characteristic data for model development and calibration. A total of 23 wells provided water-level data for model calibration. Model calibration goals were to match simulated to observed heads within 15% of the overall range in water level within the aquifer (about + or - 4.2 feet). This is considered acceptable as water-level data was not collected as part of this investigation and the model is based entirely on existing data. Of the 23 wells used for model calibra-

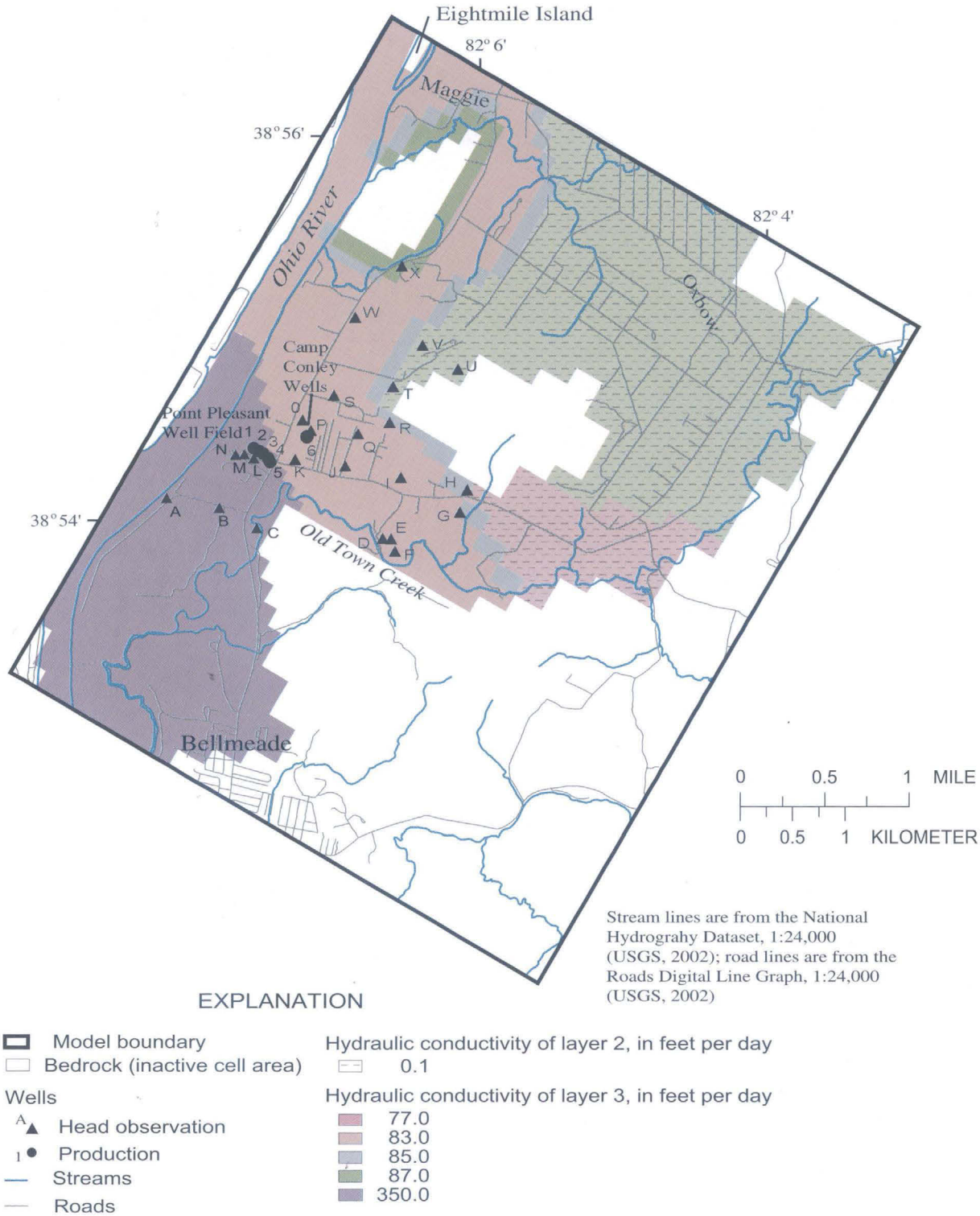


Figure 3. Values of hydraulic conductivity, inactive cells, and location of production and head observation wells in layers two and three of the Point Pleasant model.

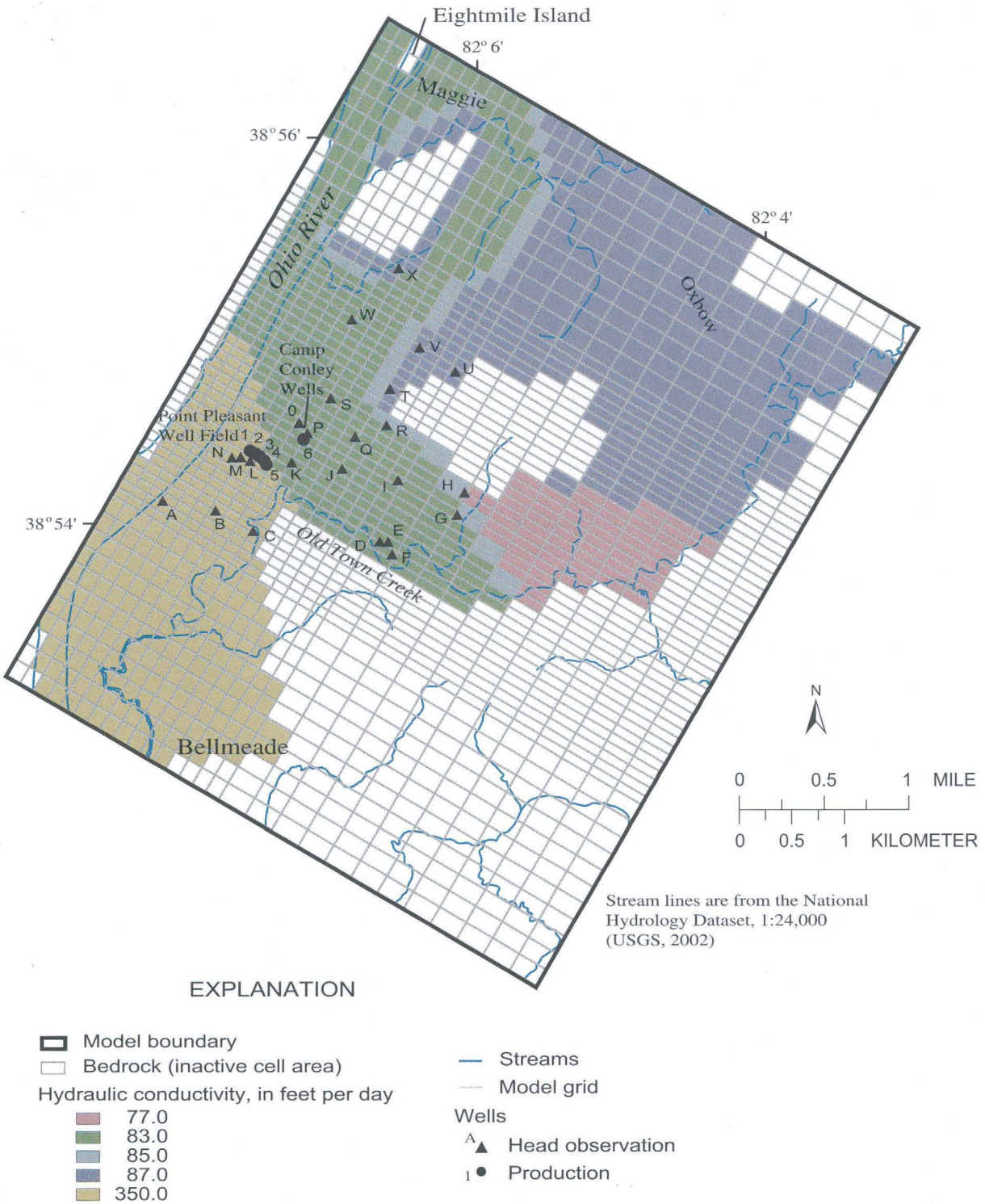


Figure 4. Values of hydraulic conductivity, model grid, inactive cells, and location of production and head observation wells in the upper layer of the Point Pleasant model.

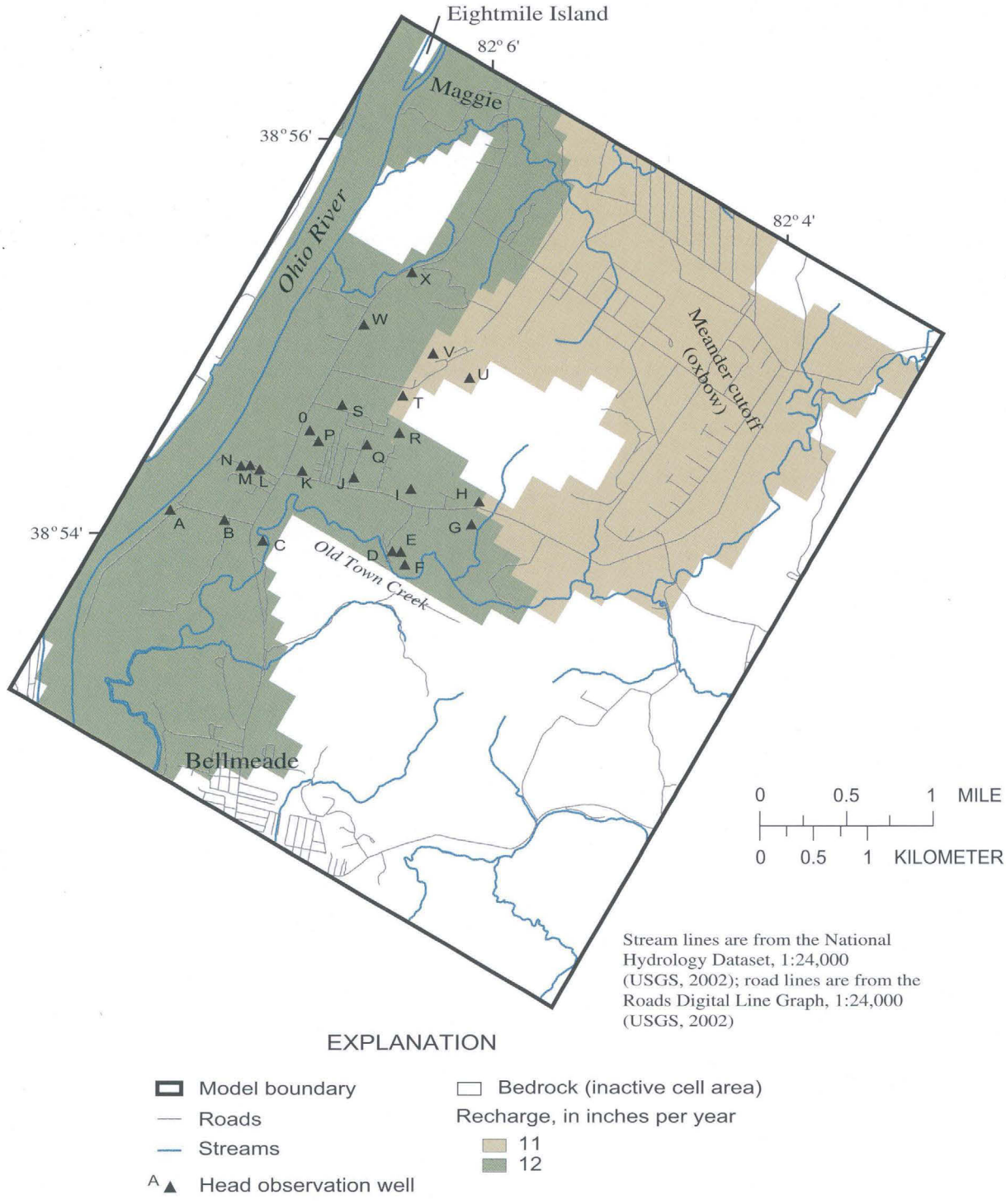


Figure 5. Head observation wells and recharge assigned to the upper layer of the Point Pleasant model.

tion, only 3 failed to meet the 4.2 ft error criteria and most wells calibrated to within a few feet of observed water levels. The calibrated model had a mean error of -1.41 ft and a root mean-squared error of 3.80 ft. Most of the error was from wells in and near areas where the hydraulic conductivity changes significantly over short distances. In these areas, it is difficult to match simulated water levels to observed water levels. Fortunately, these areas are not adjacent to the active public supply wells, and the errors do not significantly affect the simulation of ground-water flow to the major pumping centers. Overall the model calibrated well and compared favorably to a potentiometric surface map prepared for the area in support of contamination investigations in the area (IT Corporation, 1996).

Potential limitations that could affect the accuracy of the simulation are mostly related to a lack of data in the uppermost regions of the potential recharge area to the public supply wells. Fortunately, data were sufficient to characterize the areas near the public supply wells. Additional data, especially borehole logs and water levels, would be needed to better refine the hydrogeology in the easternmost area of the model.

Model Analysis and Interpretation

Other than a few domestic wells that pump minimal quantities of water, the major ground-water withdrawals in the Point Pleasant well field and surrounding area are from the city of Point Pleasant well field and the wells at the Camp Conley PSD (fig. 6). Simulated flow paths indicate that none of the water pumped from the Camp Conley wells originates from the Ohio River. The 5-year time-of-travel area is less than 0.25 mi in length, and derives most of its recharge from an area primarily to the east of the wellfield. The Point Pleasant and Camp Conley well fields derive water from the same general area and a change in the pumping schedule of one would likely cause a change in the flow paths and time of travel to the others. The degree of the change would be proportional to the rate of change in pumping.

Results of the simulations conducted for the Point Pleasant well field indicate that only a minimal amount of water, approximately 4 percent, is derived from river bed infiltration of water from the Ohio River. Most water (96 percent) is derived from a large circular area approximately 5,000 ft by 4,700 ft that surrounds the Point Pleasant well field. The 5-year time-of-travel area is approximately 0.84 mi^2. The contaminated land to the south is in the cone of depression surrounding the Point Pleasant well field and some wells on the southern side of the Point Pleasant well field have tested positive for trace amounts of contaminants.

Lubeck/Washington Bottom Area

The study area for the Lubeck/Washington Bottom ground-water-flow model extends from Ohio River mi 195 near Meldahl to Ohio River mi 190 to the north and incorporates part of Blennerhasset Island (fig. 7). The model area includes the Lubeck well field and two chemical manufacturing plants in Washington Bottom. The modeled area is very large (approximately 23 mi^2) and was designed to be much larger than the expected recharge area to the Lubeck well field.

The model area was extended to these limits for two reasons. First, a surfactant, commonly known as C8 has been used in production processes at the chemical plant (chemical plant #1) in the northern portion of Washington Bottom for a number of years, and some C-8 was released into the Ohio River and to the atmosphere as part of normal plant operations. Several wells in the Little Hocking well field showed traces of C-8 contamination; this led to an investigation to determine the extent and severity of the potential contamination. A ground-water-flow model was prepared to assess potential movement of C-8 from the plant area (Corporate Remediation Group, 2003). The high density of data available for the areas encompassing chemical plant #1 and another nearby chemical manufacturing facility (chemical plant #2) provided a clear boundary condition for the model and extensive data for model development and calibration.

In addition to the data collected for the C-8 investigation, a wealth of data was available from prior studies: (1) hydrogeologic investigations at the two chemical plants in Washington Bottom (Michael P. Sherrier - URS Corporation, written commun., 2001 and Peter Costello, W.Va. Department of Environmental Protection, written commun, 2000); (2) a wellhead protection area report for the Little Hocking, Ohio well field (Burgess and Niple, 1996); (3) hydrogeologic evaluations for additional water supply from Blennerhasset Island (Burgess and Niple, 1988; Leggette, Brashears, and Graham, 1986); and (4) investigations of bedrock geology for a part of the corridor D highway project and bridge crossing Blennerhasset Island just south of Parkersburg and at the north end of Washington Bottom (Ronald L. Adams, H.C. Nutting, written commun., 2002). Well records also were obtained for the Lubeck PSD (James Cox, Lubeck PSD, written commun. 2001).

Boundary Conditions and Layers

Boundary conditions for the Lubeck/Washington Bottom model are complex and have several constraints. The stratigraphy of the alluvium in the Lubeck area is complex; however, sediments can generally be categorized as glaciofluvial deposits of sands and gravels overlain by finer-grained fluvial deposits of silt and clay, many of which were deposited during floods (Carlston and Graeff, 1956). As such, the model design for the Lubeck area is composed of only two layers, a lower layer (fig. 8) representing more permeable sand and gravel deposits and an upper layer (fig. 9) representing finer grained silt and clay deposits. The model consists of 95 rows and 101 columns and includes 9,595 cells (fig. 8) and encompasses approximately 23 mi^2. Due to the sinuous shape of the study area, nearly half of the cells in the model are inactive cells (fig. 9) and the model actually only simulates ground-water flow over an area of approximately 12 mi^2.

There is a great deal of variability in the hydraulic conductivity, especially in the upper silt and clay layer (table 2).

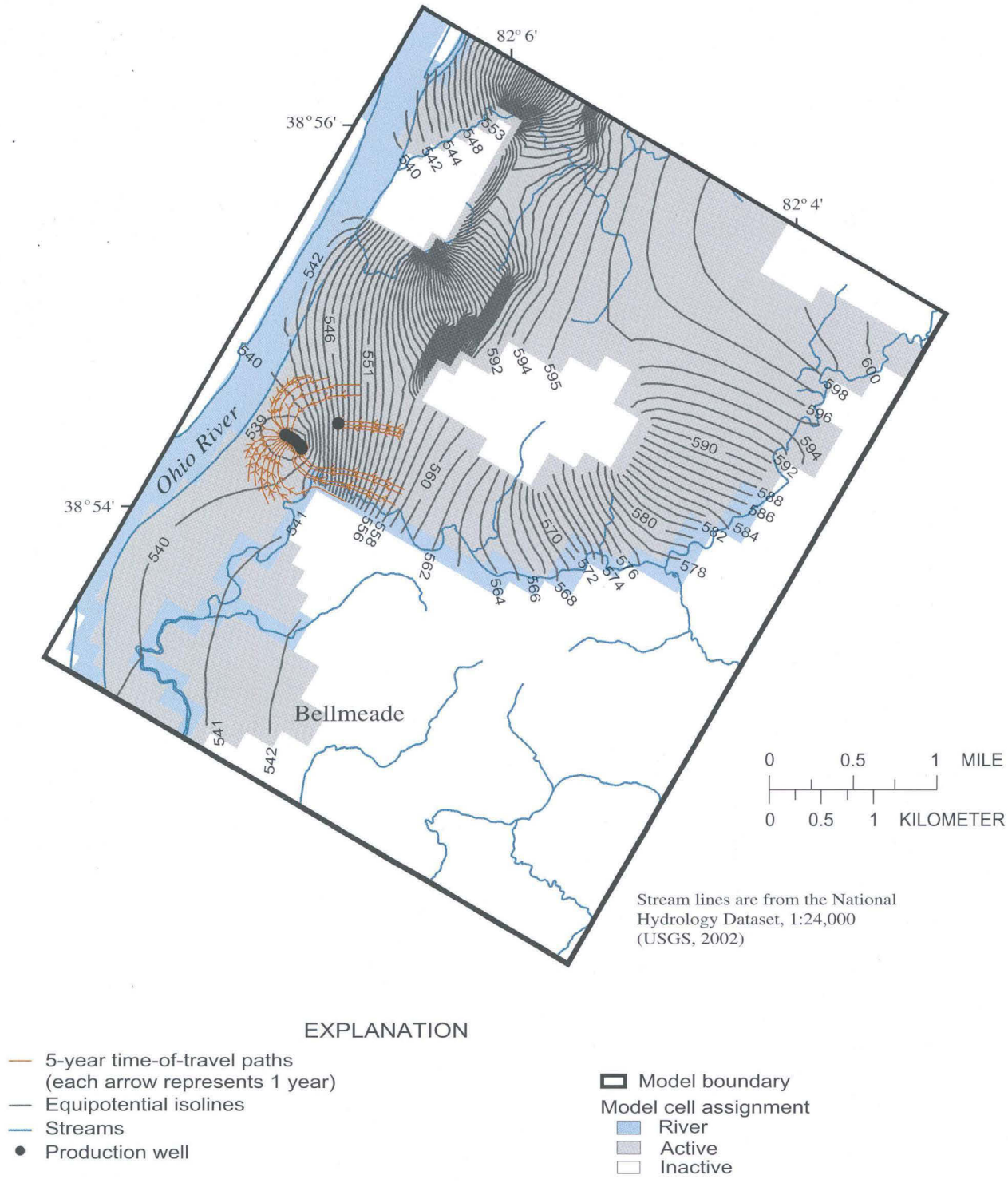
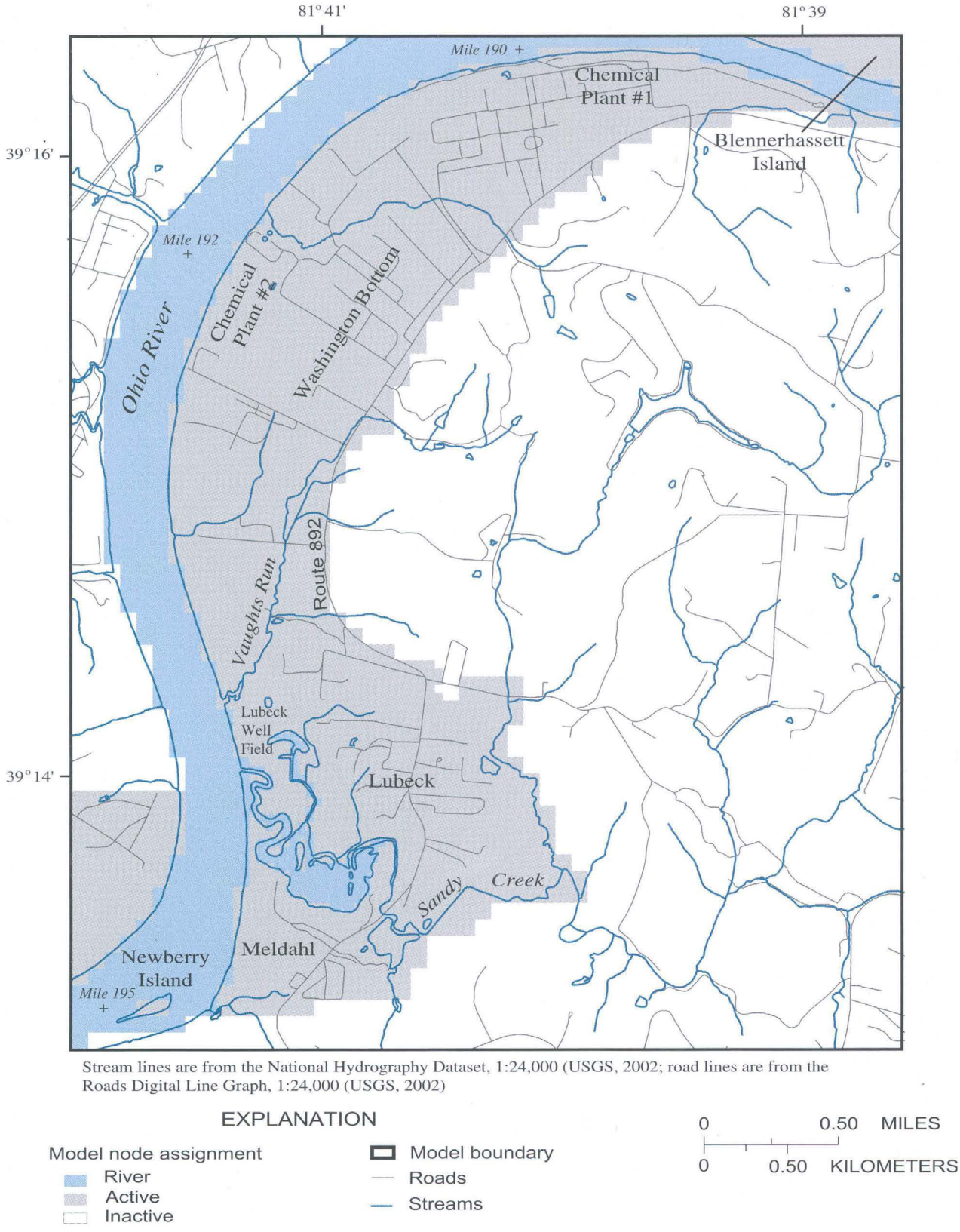


Figure 6. Calibrated heads and 5-year time-of-travel paths to the Point Pleasant well field in the lower layer (layer 3) of the model.



Stream lines are from the National Hydrography Dataset, 1:24,000 (USGS, 2002; road lines are from the Roads Digital Line Graph, 1:24,000 (USGS, 2002)

Figure 7. Location of the Lubeck/Washington Bottom model area, West Virginia (refer to figure 1 for general location map).

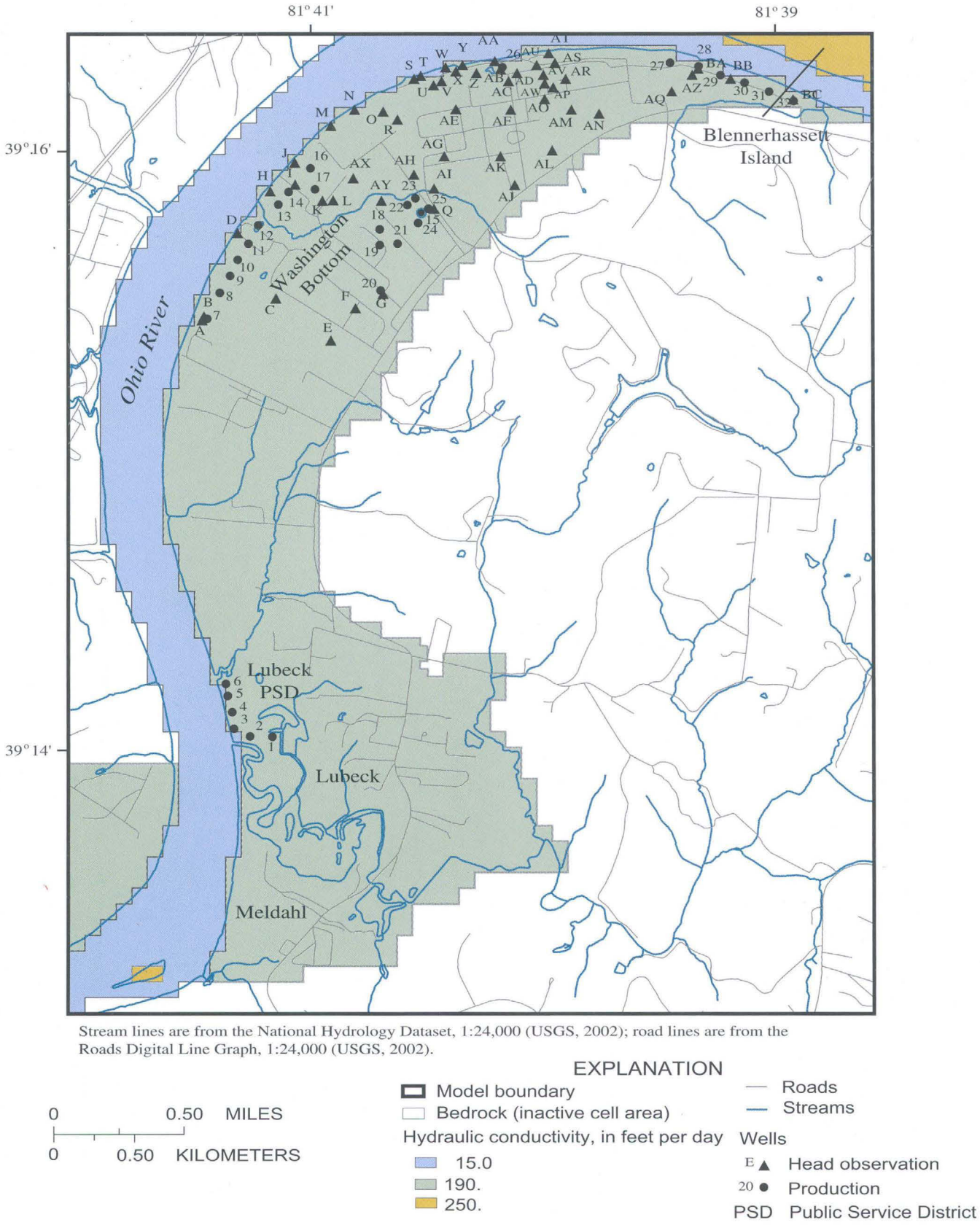


Figure 8. Values of hydraulic conductivity and location of production and head observation wells in the lower layer of the Lubeck/Washington Bottom model.

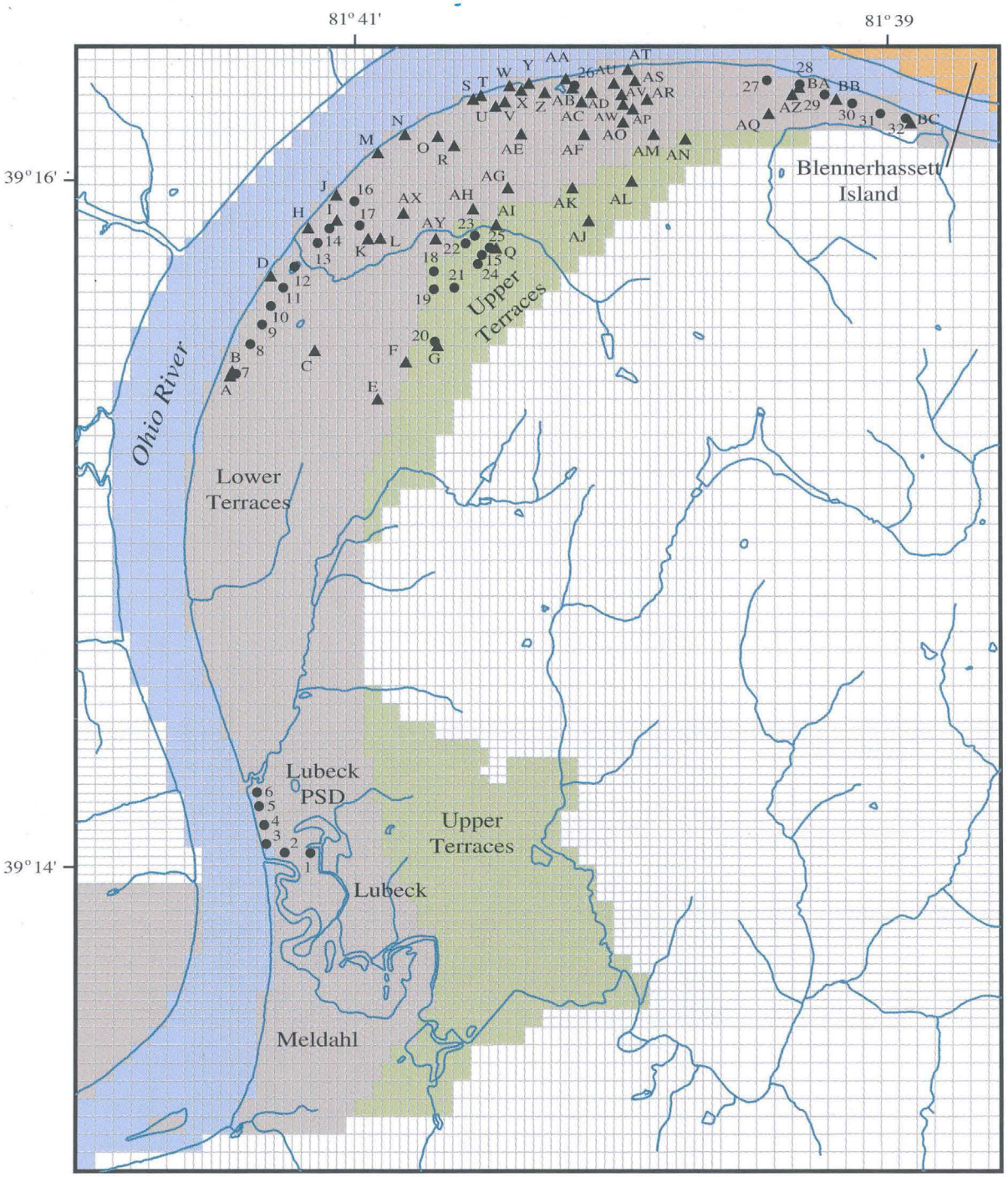


Figure 9. Well locations, model grid, inactive cells, and values of hydraulic conductivity in the upper layer of the Lubeck/Washington Bottom model.

Hydraulic conductivity based on prior published estimates is complex for the model area. Generally, the lower alluvial aquifer was simulated from an elevation of 530 to 570 ft and assigned a hydraulic conductivity of 190 ft/d. The upper confining layer representing fluvially deposited silts and clays was simulated from 570 ft to land surface and assigned a hydraulic conductivity of 1.0 ft/d. The uppermost terraces are composed primarily of permeable sands and colluvium and assigned a hydraulic conductivity of 190 ft/d, similar to that for the deeper aquifer.

Only alluvial sediments were included in the modeled area, and surrounding bedrock areas were not incorporated. This approach is valid because of the extreme variability in hydraulic conductivity for alluvial aquifers in the area compared to bedrock aquifers. The transmissivity of alluvial aquifers in the area ranged from 2,100 to 59,000 ft^2/d with a mean of 9,400 ft^2/d (Kozar and Mathes, 2001). Bedrock aquifers in the area have transmissivities averaging only about 130 ft^2/d (Kozar and Mathes, 2001). Thus, the low transmissivity of bedrock aquifers would result in negligible inflow of ground water to the alluvial aquifer from bedrock.

Results of the ground-water-flow model for this study were compared with the previous model developed for the Lubeck area that incorporated bedrock areas (Corporate Remediation Group, 2003), and no discernible difference between the models was found. This comparison indicates that simulation of ground-water flow in Ohio River alluvial sediments does not require inclusion of flow from bedrock areas and also indicates that ground-water flow to the alluvium from bedrock is minimal.

River cells and no-flow cells were the two primary boundary conditions used in the design of the Lubeck model. The Ohio River was simulated with a series of river cells and included a large backwater wetland area near the Lubeck well field. No-flow cells were set at the margin between the bedrock and the alluvium. During the course of this study (January 2001 to December 2003), the modeled areas experienced severe drought. As a result, no flow was visible in any of the tributary streams flowing from bedrock onto the alluvium. Seepage measurements could not be made to assess the effect of ground-water seepage to or from these tributaries. Discharge measurements made in the Parkersburg/ Vienna and Point Pleasant areas as part of this investigation (to be discussed later in this report) did not indicate appreciable flow either from or to the tributary streams, and the minimal seepage from the streams would have had a negligible effect on the overall water budget even if present. The few tributary streams in the area were therefore not specifically included in the model using either river or drain cells. If flow had been present in the streams, it is likely that only a minor component could have infiltrated to the underlying alluvial aquifer.

Recharge was assigned to the upper layer (fig. 10) on the basis of the relative permeability of sediments at the surface. The area occupied by the lower terraces was assigned a recharge of 7 in/yr and the colluvial deposits in the area were assigned a recharge of 9.8 in/yr. Alluvial sediments on Blennerhasset Island generally were more permeable and were assigned a recharge of 11 in/yr.

Model Calibration and Limitations

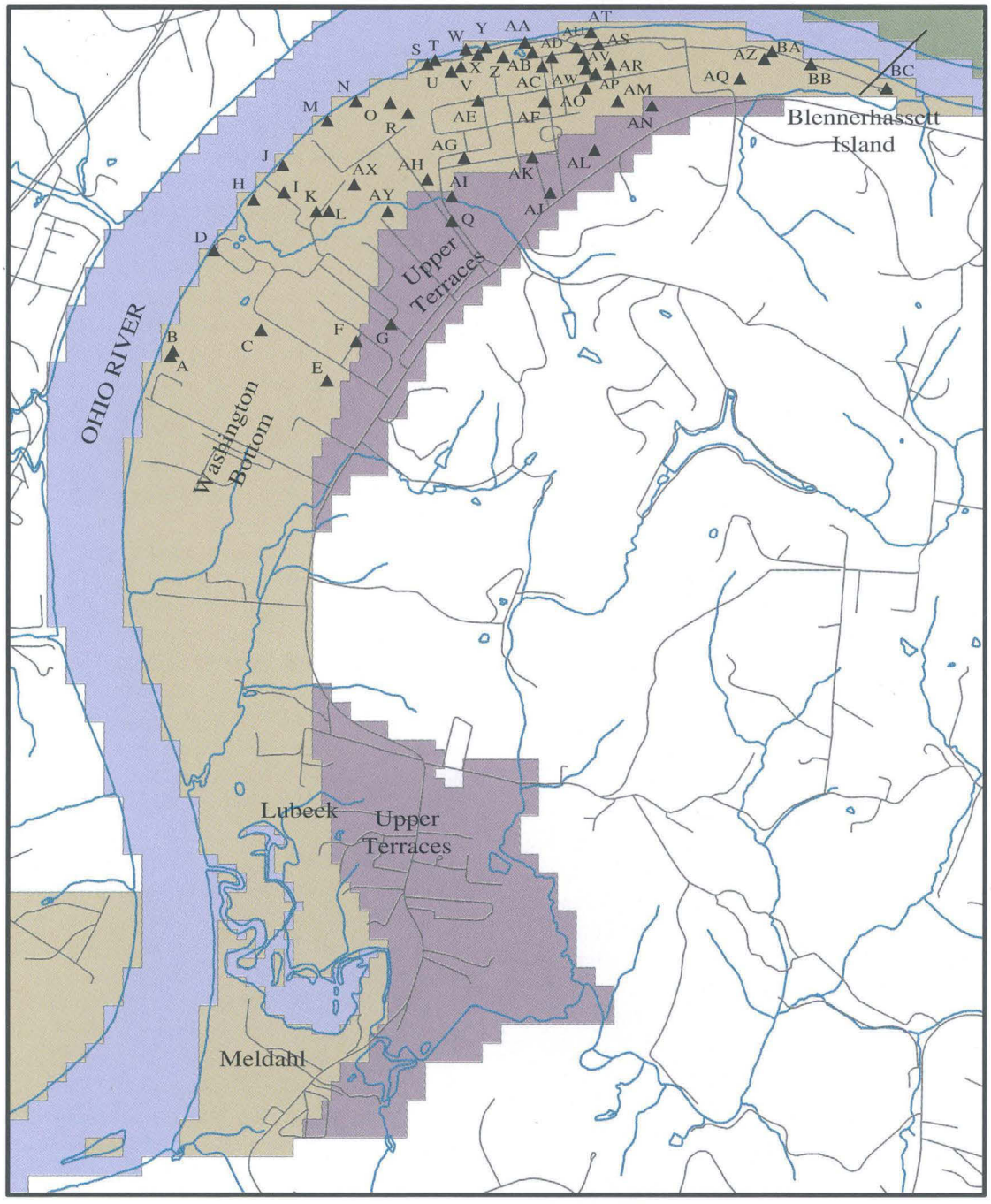
One major modification to the model was necessary to provide an accurate simulation of ground-water flow in the area. An influx of fine-grained sediments deposited by large volumes of water from the Little Kanawha River into the Ohio River has apparently resulted in significant reworking of the sediments in the Ohio River immediately downstream of the confluence with the Little Kanawha River. Thus, the hydraulic conductivity of sediments in the Ohio River immediately downstream from the Little Kanawha River is likely to be much lower than the hydraulic conductivity of river sediments near Parkersburg and Vienna. A previous ground-water-flow model developed to document potential transport of C-8 in the Washington Bottom area (Corporate Remediation Group, 2003) encountered this situation and resolved the problem by adjusting the conductivity of river-bottom sediments.

The ground-water-flow model was calibrated by matching simulated and measured water levels. A total of 76 wells provided water-level data for model calibration. Model calibration goals were to match simulated to observed heads within 15% of the overall range in water level within the aquifer (about + or - 4.5 feet). This is considered acceptable as water level data was not collected as part of this investigation and the model is based entirely on existing data. Of the wells used for model calibration, only 9 of the 76 wells failed to meet the 4.2 ft error criteria and most wells calibrated to within a few feet of observed water levels. The calibrated model had a mean error of 1.59 ft and a root mean squared error of 3.24 ft. Most of the error is due to wells being situated near pumping centers. In these areas, computed water levels in pumping cells reflect the average water level in the cell. The simulated heads of monitoring wells in these cells were slightly higher than those actually observed.

Numerous limitations could affect the accuracy of this simulation. The major limitation is lack of detailed information on the composition of the alluvium near the Lubeck well field. Although substantial data are available from past investigations in Washington Bottom, little data relates to aquifer properties for the area immediately adjacent to the Lubeck well field. In addition, reworking of sediments in the Ohio River downstream from the confluence with the Little Kanawha River has resulted in significant alteration of the hydraulic properties of sediments in the streambed. Unfortunately, the exact nature and properties of the reworked sediments are not known. Finally, the geometry of the alluvial aquifer is poorly understood in the area near the Lubeck well field.

Model Analysis and Interpretation

Results of modeling in the Washington Bottom and the Lubeck well field indicate that the primary source of flow to the Lubeck well field is not derived from the immediate area occupied by the nearby chemical plants (fig. 11). Most flow is derived from the area immediately adjacent to the Lubeck well



Stream lines are from the National Hydrology Dataset, 1:24,000 (USGS, 2002); road lines are from the Roads Digital Line Graph, 1:24,000 (USGS, 2002).

EXPLANATION

C▲ Head observation well

Streams

Model boundary

Bedrock (inactive cell area)

Recharge, in inches/year

0.1

7.0

9.8

11.0

0 0.50 MILES

0 0.50 KILOMETERS

Figure 10. Head observation wells and recharge assigned to the upper layer of the Lubeck/Washington Bottom model.

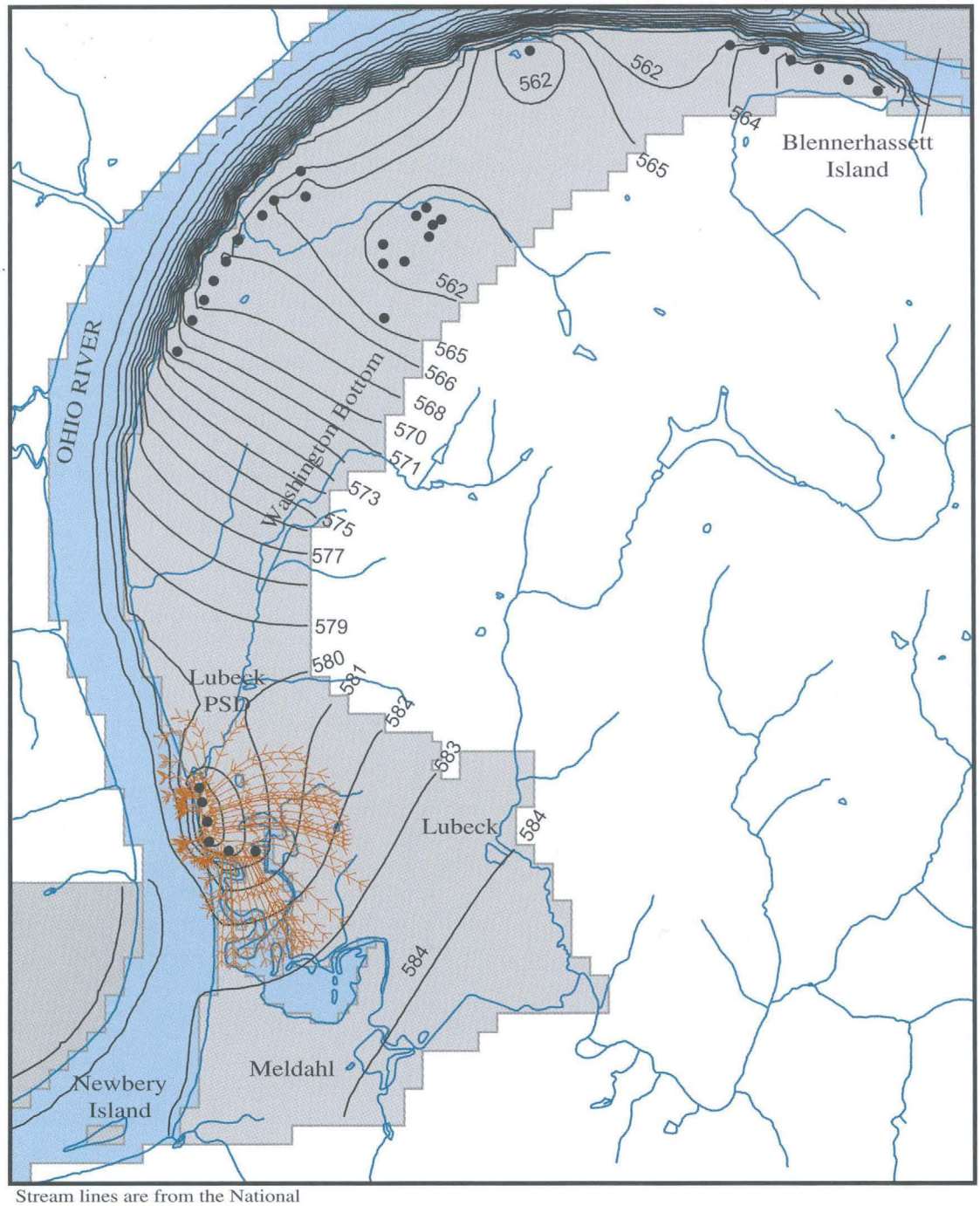


Figure 11. Calibrated heads and 5-year time-of-travel paths to the Lubeck well field in the lower layer of the Lubeck/Washington Bottom model.

field near Vaughts Run and Sandy Creek. Part of the flow to the Lubeck well field also is derived directly from the Ohio River, which could be a source of contaminants. Hydraulic gradients indicate that the water table near the Lubeck well field is actually at a higher elevation than the water table near the chemical plants. The Lubeck well field probably does not receive recharge from the northern part of the Washington Bottom area. Of approximately 665,000 gal of water pumped daily from the Lubeck well field, about 261,600 gal (39 percent) is derived from induced infiltration from the Ohio River and about 403,400 gal (61 percent) is derived from the capture of ground water in the alluvium. The area over which recharge to the alluvium would occur in a 5-year period (5-year time of travel) is approximately 3,320 ft by 4,338 ft or 0.5 mi^2 (fig. 11).

Parkersburg/Vienna Area

The modeled area for the Parkersburg/Vienna model extends from the confluence of the Ohio and Little Kanawha Rivers near Ohio River mi 185 in Parkersburg to the upper end of the alluvial flat at the north end of Vienna near Ohio River mi 178 to the north (fig. 12). The modeled area includes the cities of Vienna and Parkersburg. Both cities are located on the same alluvial flat or river bottom and it was logical to simulate ground-water flow for both sites simultaneously.

Data for the Parkersburg/Vienna area are not as abundant as in the Lubeck/Washington Bottom area. A RCRA investigation was conducted and a ground-water-flow model (CDM, 2002b) was developed to assess the fate and transport of PCE from a long-term discharge at a dry-cleaning operation in Vienna. The RCRA investigation provided a substantial amount of hydrogeologic data (Aaron Frantz, CDM Federal Programs Corporation, written commun., 2001) from which a ground-water-flow model could be developed that encompassed the larger Parkersburg and Vienna area. Water-level measurements were made by USGS personnel in a series of old production wells in the Parkersburg well field; data collected was used for model calibration for the southern part of the model area. Data from the Lubeck/Washington Bottom area was very useful for design and calibration of the Parkersburg/Vienna model. Washington Bottom is less than 2 mi south of the confluence of the Ohio and Little Kanawha Rivers and is hydrogeologically similar to the Parkersburg/Vienna alluvial flat. Extrapolation of data from one site to the other helped model design and calibration for both models.

Boundary Conditions and Layers

The Parkersburg alluvial aquifer is adjacent and similar to the Lubeck/Washington Bottom area with one major exception. The Little Kanawha River flows into the Ohio River at the southern terminus of the Parkersburg/Vienna bottom. Fine-grained sediments from the Little Kanawha River are deposited below but not above the confluence. Therefore, the alluvial sediments in the Parkersburg/Vienna bottom typically have a higher proportion of sand and gravel and a smaller proportion of silt and clay than river bottom deposits in the Lubeck/Washington Bottom area. The assigned hydraulic conductivity of Ohio River bottom sediments was therefore much higher (hydraulic conductivity of 175-300ft/d) for the Parkersburg/Vienna area than for the Lubeck/Washington Bottom area (hydraulic conductivity of 4-15 ft/d). However, the alluvial sediments in the lower glacial outwash terrace deposits in the Parkersburg/Vienna area (hydraulic conductivity of 175-300 ft/d) were not appreciably different from those of the Lubeck/Washington Bottom area (hydraulic conductivity of 190-250 ft/d).

The Parkersburg/Vienna model included two layers, a lower layer (fig. 13) representing glacial outwash sands and gravels and an upper layer (fig. 14) representing primarily fluvial silt and clay flood-plain deposits. The upper silt and clay confining layer was assigned hydraulic conductivities ranging from 1 to 3 ft/d and the lower layer was assigend hydraulic conductivities ranging from 100 to 300 ft/d (table 2). The upper confining unit is common in most of the alluvial terraces along the Ohio River (Carlston and Graeff, 1956). The lower alluvial aquifer was simulated from an elevation of approximately 540 to 600 ft and the upper layer representing fluvial deposits was simulated from 600 ft to land surface. The model consists of 69 rows and 30 columns and includes 2,070 cells (fig. 14). Approximately one-third of the cells represent areas with bedrock outcrops and are inactive in the model. The model encompasses an area of 16,605 by 35,705 ft or approximately 21.3 mi^2.

The two primary boundary conditions used in model development included river cells and inactive cells. Bedrock aquifers have much lower permeabilities than alluvial aquifers and were therefore simulated as inactive cells (fig. 14). Because there was flow in tributary streams during development of the Parkersburg model, and because the effect of these streams on the overall hydrology of the area is unknown, river cells were used to simulate ground-water seepage to and from tributary streams. The interaction between tributary streams and the underlying alluvial aquifer were determined to be minimal.

Recharge for the Parkersburg model ranged from 3 to 9 in/yr (fig. 15) and was assigned to layers according to the permeability of sediments in the terraces. The composition of alluvial sediments in the Vienna area was very different from that in the Parkersburg area. Because the overlying silt and clay deposits are much thicker in the Parkersburg area than in the Vienna area, recharge rates of 6 and 9 in/yr, were assigned to the Parkersburg and Vienna areas, respectively. The upper terraces in the Parkersburg area are characterized by much thinner accumulations of alluvial deposits, with a high percentage of silt and clay, and were assigned a recharge value of only 3 in/yr.

Model Calibration and Limitations

The ground-water-flow model for the Parkersburg/Vienna area was calibrated by matching simulated and measured water levels. A total of 28 wells provided water-level data for model calibration. Model calibration goals were to match simulated to observed heads within 10% of the overall range in water level within the aquifer (about + or - 4.0 feet). This is considered

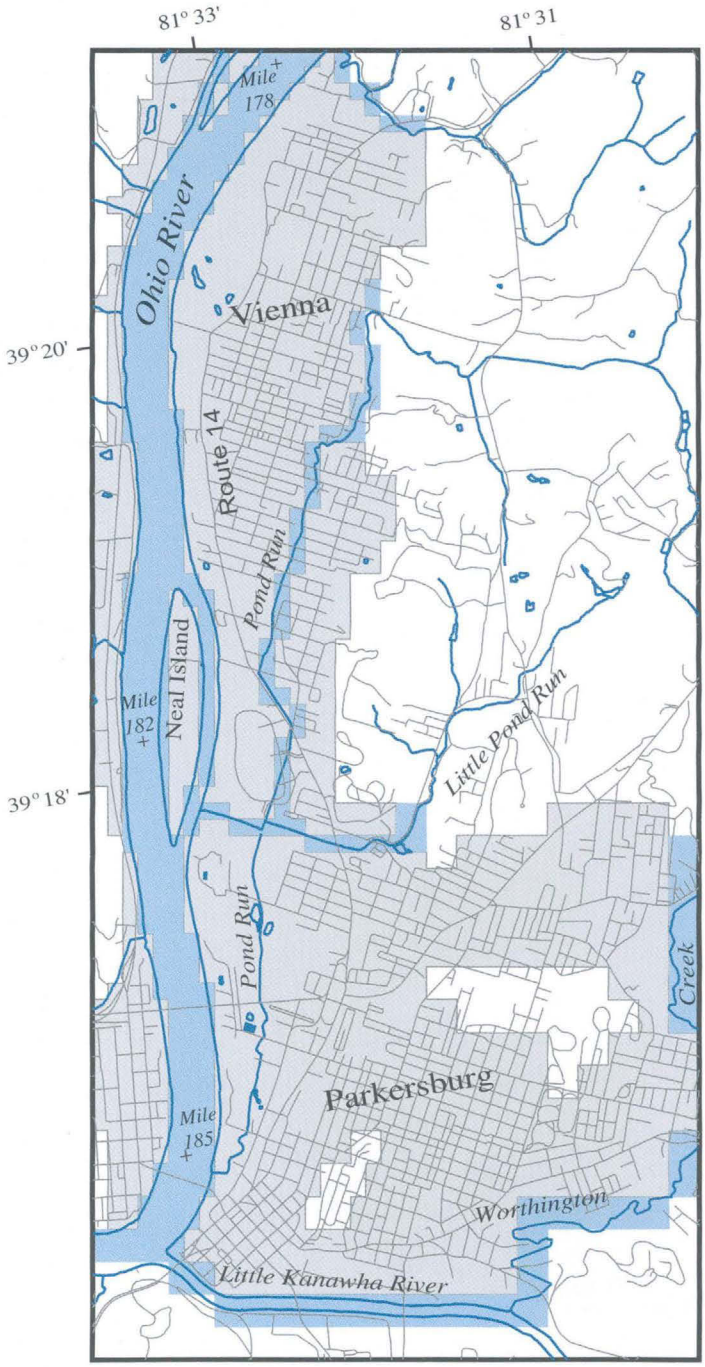


Figure 12. Location of the Parkersburg/Vienna model area, West Virginia (refer to figure 1 for general location map).

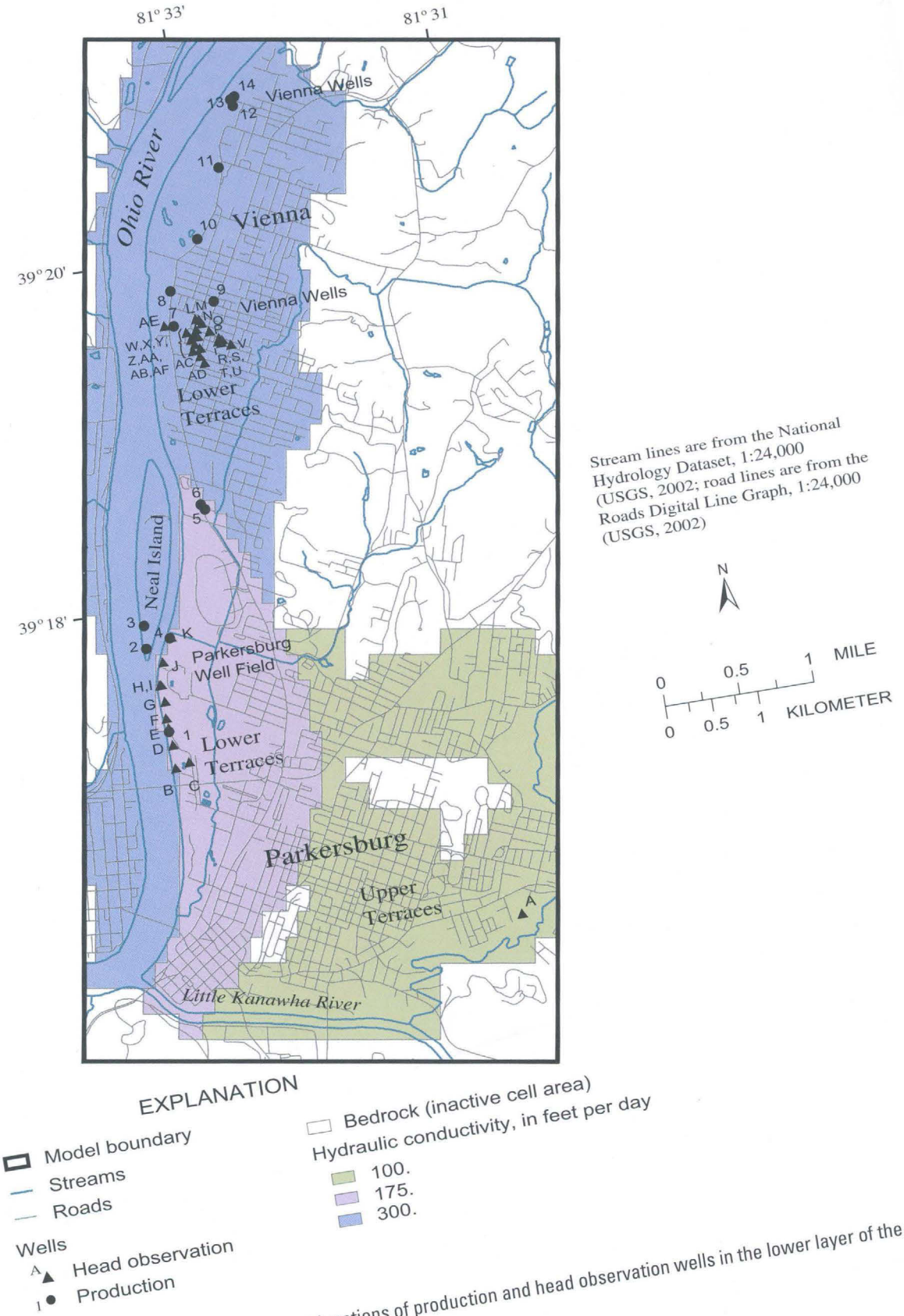


Figure 13. Values of hydraulic conductivity and locations of production and head observation wells in the lower layer of the Parkersburg/Vienna model.

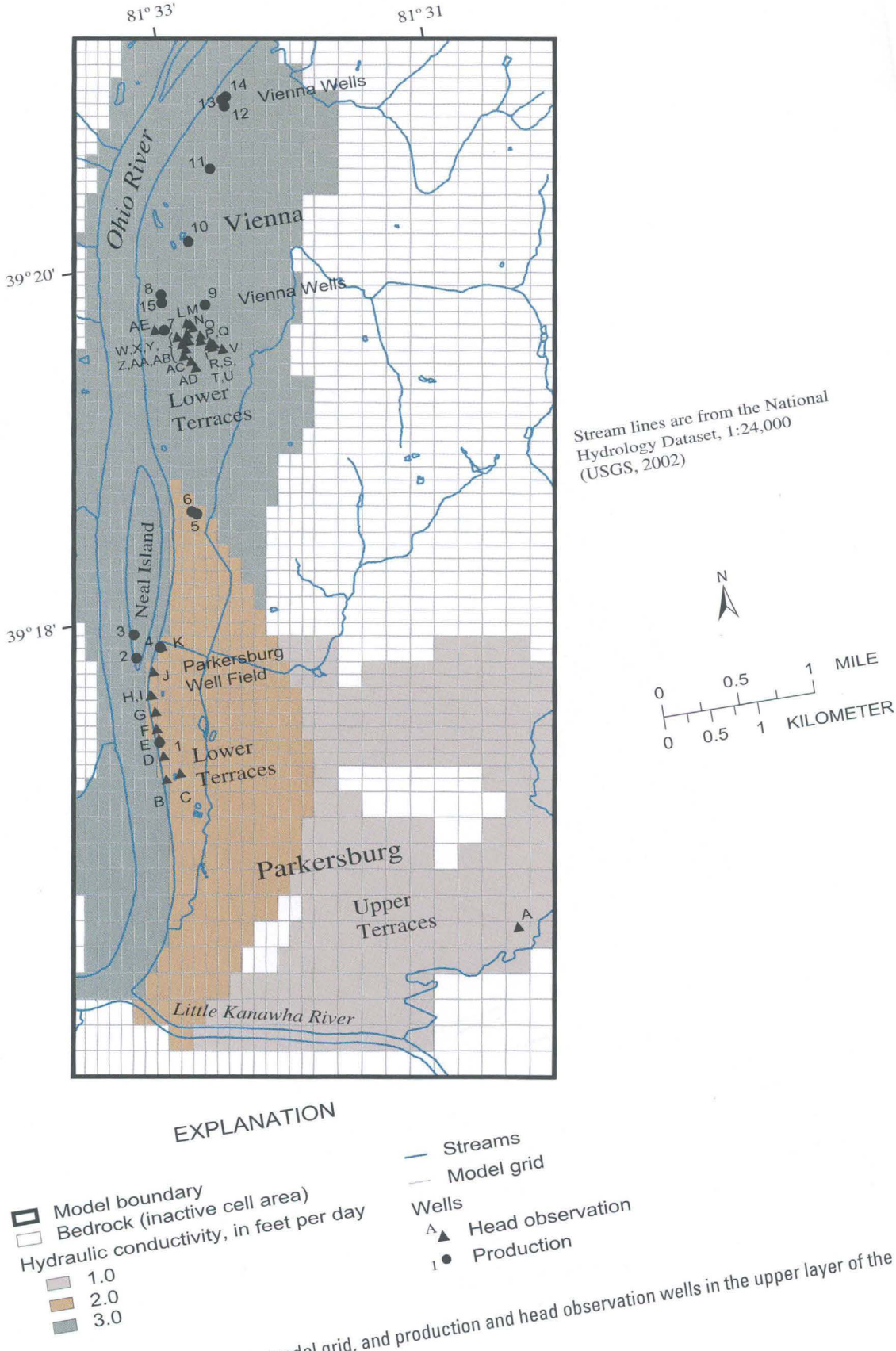


Figure 14. Values of hydraulic conductivity, model grid, and production and head observation wells in the upper layer of the Parkersburg/Vienna model.

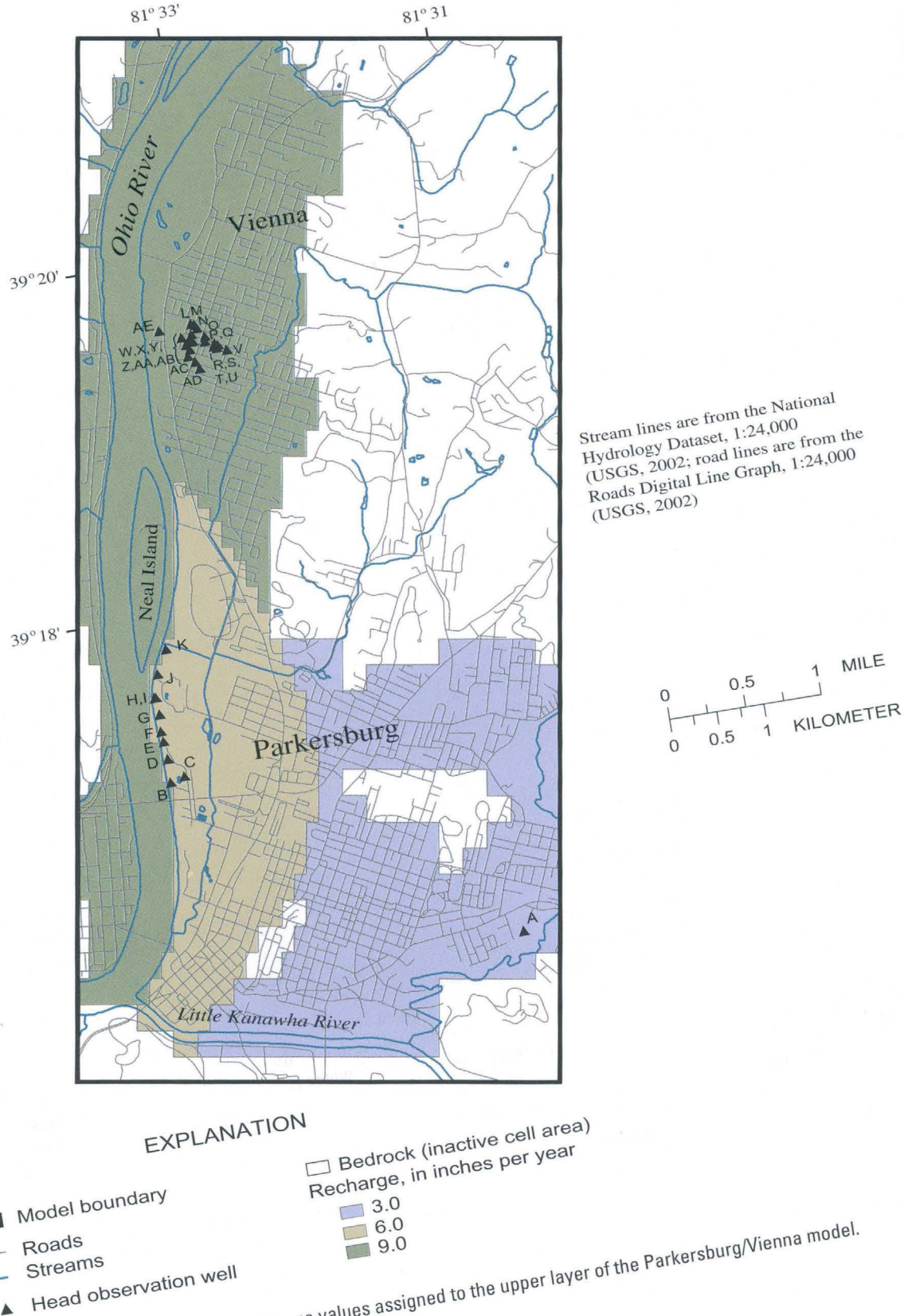


Figure 15. Head observation wells and recharge values assigned to the upper layer of the Parkersburg/Vienna model.

acceptable as water-level data was only collected in the area near the Parkersburg well field as part of this investigation. The remainder of the model, especially for the Vienna area, is based entirely on existing data. Of the wells used for model calibration, only 4 of the 28 wells failed to meet the 4.0 ft error criteria and most simulated water levels calibrated to within a few feet of observed water levels. The calibrated model had a mean error of 1.44 ft and a root mean-squared error of 3.22 ft. Most of the error is from observation wells located near the River or near pumping centers with steep hydraulic gradients. Computed water levels in cells with pumping wells reflect the average water level in the entire cell whereas water levels of observation wells in these cells would be expected to have slightly higher simulated water levels because they generally would not be adjacent to the pumping wells. It is also difficult to match simulated and observed water levels in areas near river cells

The accuracy of the model simulation for the Parkersburg/ Vienna area is mostly related to the characterization of the geometry of the aquifer system. Hydrogeologic data are available for the alluvium at and adjacent to the Ohio River and the Parkersburg and Vienna well fields, but the area closer to the bedrock valley wall has less data and is not as well characterized. The resulting uncertainty of the geometry of the alluvial aquifer could result in errors in time-of-travel estimates made using particle-tracking software. Additional borehole logs would be needed to refine the aquifer geometry in the area near the bedrock valley walls and the uppermost river terraces.

Model Analysis and Interpretation

Ground-water flow in the alluvial aquifer near Parkersburg and Vienna is complicated and has been modified substantially by the cones of depressions from the major pumping wells in the area (fig. 16). This is especially true for the Parkersburg well field (fig. 16) where pumping of 4.78 million gallons of water per day (Mgal/d) has resulted in a cone of depression in the water table approximately 2 mi long parallel to the Ohio River and 1 mi wide.

Conversely, cones of depression around wells in the Vienna area are much smaller (fig. 16) because of two factors. The first factor is total withdrawals: wells in the Vienna area, including the municipal wells and wells at an industrial plant and nearby golf course, only withdraw an average of 1.58 Mgal/d compared to 4.78 Mgal/d for the Parkersburg plant. The second factor relates to well location: wells in the Vienna area are scattered over the entire alluvial flat from the southern end of Vienna to its northern terminus; wells in the Parkersburg well field are clustered in a tight group on the river bank and on Neal Island. There is a considerable difference in hydraulic gradients in the alluvium due to differences in the hydraulic properties of the two areas. The alluvial deposits in the Parkersburg area have a higher percentage of silt and clay than the alluvial deposits in the Vienna area. The confining unit in Parkersburg is substantially thicker than the confining unit in the Vienna area. As a result, withdrawal of ground water in the Parkersburg area produces larger cones of depression than those in the coarser-grained deposits in the Vienna area.

Wells in the Parkersburg well field derive the majority of their water by inducing infiltration from the Ohio River. Collector wells in the well field were designed and built for this purpose. Simulations indicate that approximately 75 percent of water pumped from the Parkersburg well field is derived from the river and only 25 percent is derived from capture of water in the alluvium. Because much of the water in the Parkersburg well field is derived from infiltration of water through the riverbed, estimated 5-year time-of-travel distances for wells are typically short and confined to areas in the riverbed and the area between the cones of depression in the well field itself. The 5-year time-of travel-area is roughly1.18 mi^2 in size.

Wells in the Vienna well field produce less drawdown but typically pull in water over a larger area than wells in the Parkersburg area due to the thinner confining unit in the Vienna area. Typical 5-year time-of-travel areas for wells in the Vienna area are 3,000 ft in diameter or approximately 0.25 mi^2. Ground-water budgets indicate that the Vienna public supply wells receive a much smaller percentage of riverbed recharge than wells in the Parkersburg well field. Of the average 1.4 Mgal/d of water pumped from public supply wells for the city of Vienna, only 7 percent is estimated to be derived from induced infiltration from the Ohio River. The majority (93 percent) is derived by capturing ground water which would have flowed through the alluvium to the river. Smaller private wells, such as wells at a local golf course, a small industrial plant, and a church had much smaller 5-year time-of-travel zones and associated cones of depression.

Moundsville/Glendale

The WVBPH has been mandated to develop WHPA delineations for all public water systems in the State of West Virginia. Many sites for which WHPA delineations are required lack substantive data for model development and calibration. Although there is a sparsity of data, these sites would still benefit from analysis using numerical ground-water-flow models. Successful model development for the Moundsville/Glendale area shows that it is possible to develop models for areas with limited data if there is a good conceptual understanding of ground-water flow in the aquifer. The Moundsville/ Glendale area was selected for model development to represent a worst-case scenario from a modeling standpoint. The Moundsville/ Glendale model was the last of the four models developed in this study so that data and conceptual understanding gained in developing and calibrating the models for the previous three model areas could be extrapolated. This approach resulted in a model, that although limited in calibration data, seems reasonable from a hydrogeologic perspective.

The model for the Moundsville/Glendale area extends from the mouth of Little Grave Creek in the town of Moundsville near Ohio River mile 101.5 north to Glendale Heights near Ohio River mile 98.0 (fig. 17). Of the four models presented in

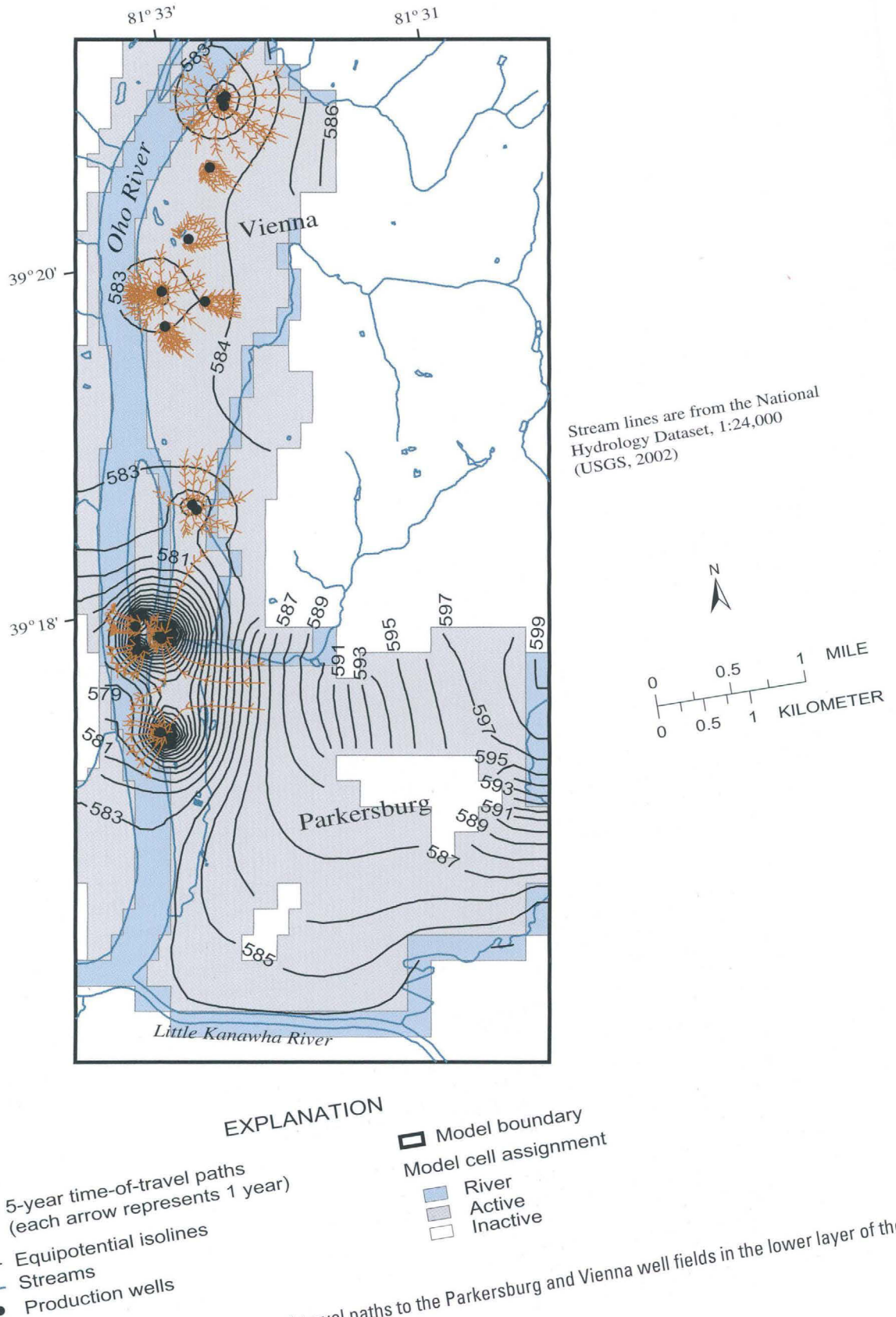


Figure 16. Calibrated heads and 5-year time-of-travel paths to the Parkersburg and Vienna well fields in the lower layer of the model.

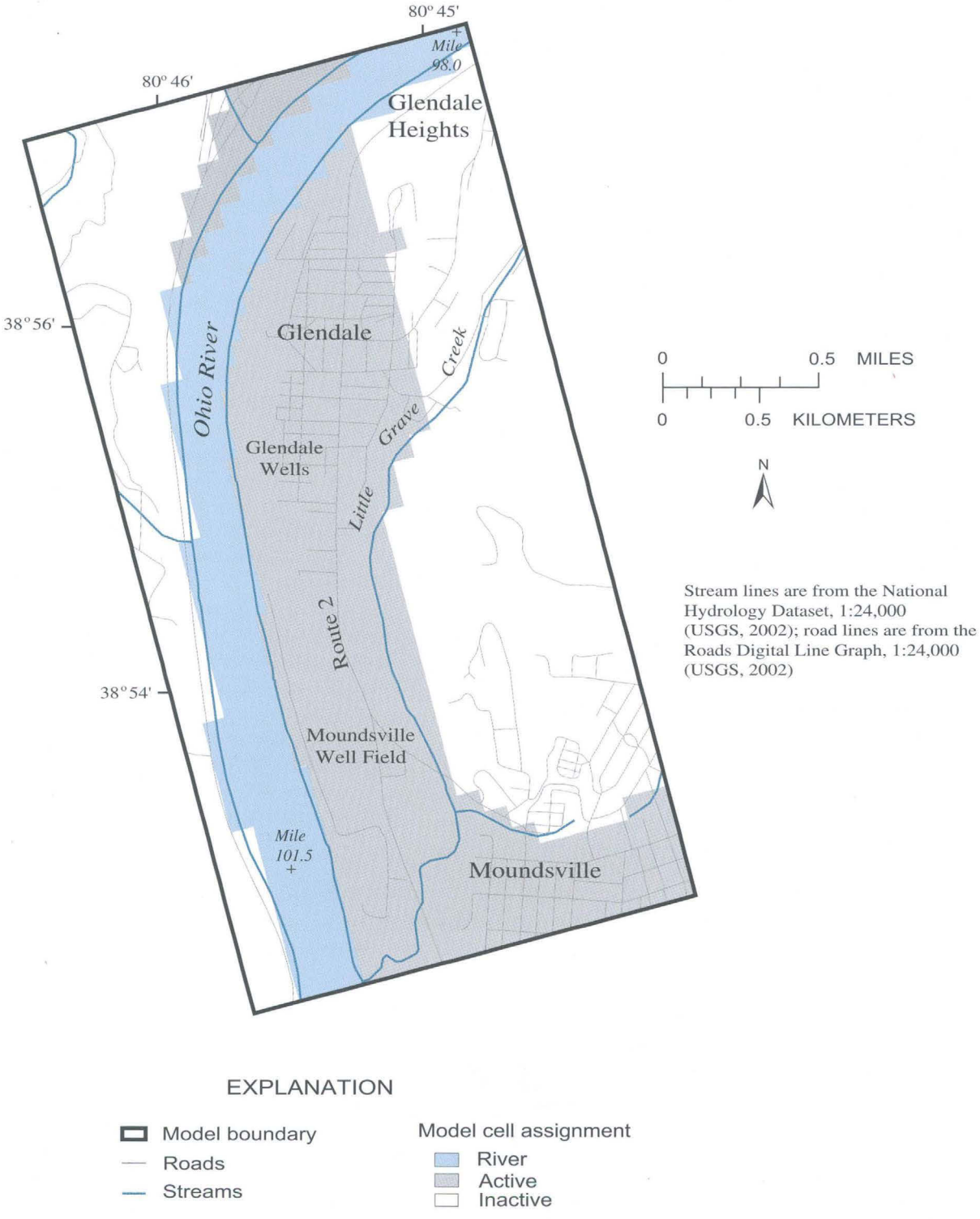


Figure 17. Location of the Moundsville/Glendale model area, West Virginia (refer to figure 1 for general location map).

this report, the Moundsville/Glendale model covers the smallest area. Both the Moundsville and Glendale Water Plants and their respective well fields are close to the Ohio River and are less than 0.25 mi apart. Both well fields combined form a series of wells paralleling the Ohio River over a distance of less than 1 mi. The Moundsville/Glendale model is simplistic from a hydrogeologic standpoint, and is based on simple geometric cross sections representing aquifer geometry with little variation of hydraulic data within the model. The actual geometry and hydraulic characteristics of the aquifer are likely much more complicated.

Data used in the design and calibration of the Moundsville/ Glendale model included written records from archives of the Moundsville (James Woods, Moundsville Water Department, written commun., 2002) and Glendale (Joe Blair, Glendale Water Department, written commun, 2002) Water Plants. Wellhead protection plans prepared by the West Virginia Rural Water Association also provided significant data and insight to conceptualize flow processes in the aquifer for the Moundsville (West Virginia Rural Water Association, 1999a) and Glendale (West Virginia Rural Water Association, 1999b) well fields. In addition, USGS personnel measured water levels in eight nonpumping wells in the Moundsville/Glendale area to assist in model calibration.

Boundary Conditions and Layers

Due to the limited amount of data and the small size of the study area, the Moundsville/ Glendale model is very simple. It consists of only two layers, a lower layer extending from an elevation of 575 to 605 ft representing the lower sand and gravel alluvial aquifer and an upper layer extending from 605 ft to land surface representing an upper silt and clay confining layer. The model consists of 52 rows and 31 columns and contains 1,612 cells (fig. 18). Approximately 40 percent of the cells represent areas with bedrock outcrops and are inactive. The model encompasses an area of 7,766 ft by 15,276 ft, or approximately 4.25 mi^2.

As with the other models, the major boundary conditions for the model are river cells and inactive cells. River cells only were applied to the Ohio River; no tributary streams were simulated in the Glendale/Moundsville area. During the course of this investigation, no flow was evident in any tributary streams in the model area. Unfortunately, the Moundsville/Glendale area was experiencing a severe drought at the time field data were collected for this study; however, even if flow had been present, data collected for the Point Pleasant and Parkersburg/ Vienna models indicate a lack of interaction between tributary streams to the Ohio River and the underlying alluvial aquifer. As with the other models, the seepage of water from adjacent bedrock areas was considered minimal in comparison to flow in the alluvium and infiltration of water from the Ohio River. Therefore, the bedrock areas in the model area were designated as inactive cells.

Hydraulic conductivity data were sparse. A value of 500 ft/d was assigned to the alluvial sand and gravel layer, and a value of 1 ft/d was assigned to the overlying silt and clay confining unit. Estimates of hydraulic conductivity were taken from a statewide report on aquifer characteristics, and data from Marshall County were used to assign values of hydraulic conductivity to the modeled area (Kozar and Mathes, 2001).

Recharge was uniformly applied to the model at a rate of 11 in/yr. This rate is similar to that used in the other models. The relatively thin overlying silt and clay unit and the high permeability of the underlying aquifer results in a slightly higher recharge than in areas dominated by thick silt and clay confining units.

Model Calibration and Limitations

Data available for design and calibration of a ground-water-flow model for the Moundsville/ Glendale area are minimal. Nevertheless, due to the small size of the study area, the water levels that were measured, and the knowledge gained in the design and calibration of the three previous models, ground-water flow in the Moundsville/Glendale area was simulated. The ground-water-flow model for the Moundsville/Glendale area was calibrated by matching simulated and measured water levels. A total of only 8 wells provided water-level data for model calibration. The area is almost exclusively served by public water systems and the 8 wells measured were the only wells available in the study area. Funds were not available for drilling monitoring wells as a part of this investigation and the simulation for the Moundsville/Glendale area was scheduled by design to represent a more or less worst case data scenario for modeling activities in Ohio River alluvium. Due to these limitations, model calibration goals were to match simulated to observed heads within 20% of the overall range in water level within the aquifer (about + or - 2.4 feet). Of the 8 wells used for model calibration, only one had a water level which did not meet the
2.4 ft error criteria. The calibrated model had a mean error of just -0.51 ft and a root mean-squared error of 2.10 ft.

Major limitations of the accuracy of the Moundsville/ Glendale model are primarily related to a lack of data. Additional data including water levels, borehole logs, and aquifer-test data would be needed to better refine the model. Any interpretation of ground-water flow on the basis of this model should be viewed as preliminary and subject to revision given additional data.

Model Analysis and Interpretation

Four principal pumping centers were simulated for the Moundsville/Glendale area. These include the Moundsville and Glendale well fields, an extraction well for ground-water remediation at a local gas station, and the hospital in Glendale. The major pumping center is the Moundsville well field. Pumping from the Moundsville well field produces a large cone of depression around the well field and throughout the surrounding alluvium (fig. 19). Of the approximately 2.0 Mgal/d of water pumped from the Moundsville well field, approximately

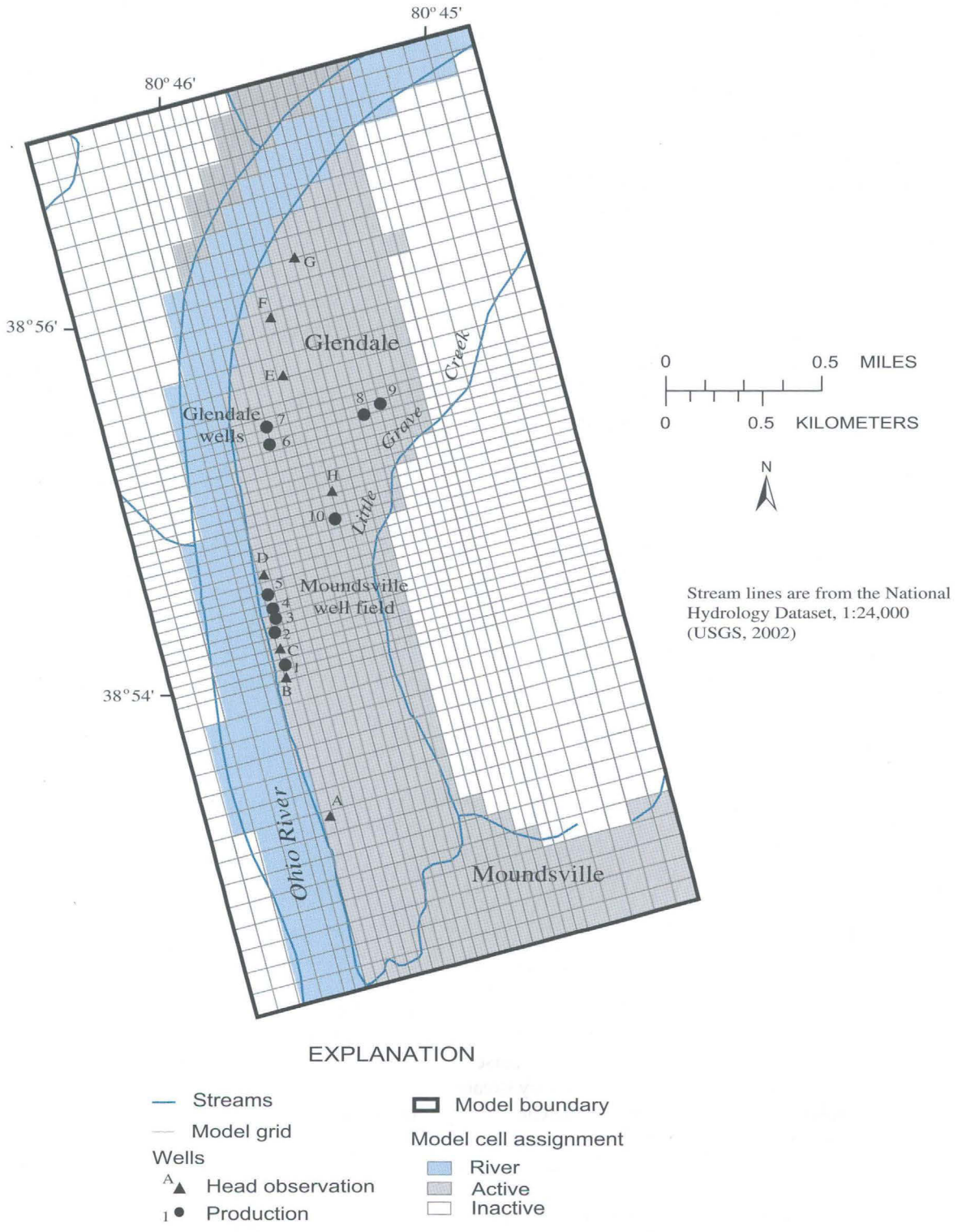


Figure 18. Model grid, locations of production and head observation wells, and inactive cells for the Moundsville/Glendale model.

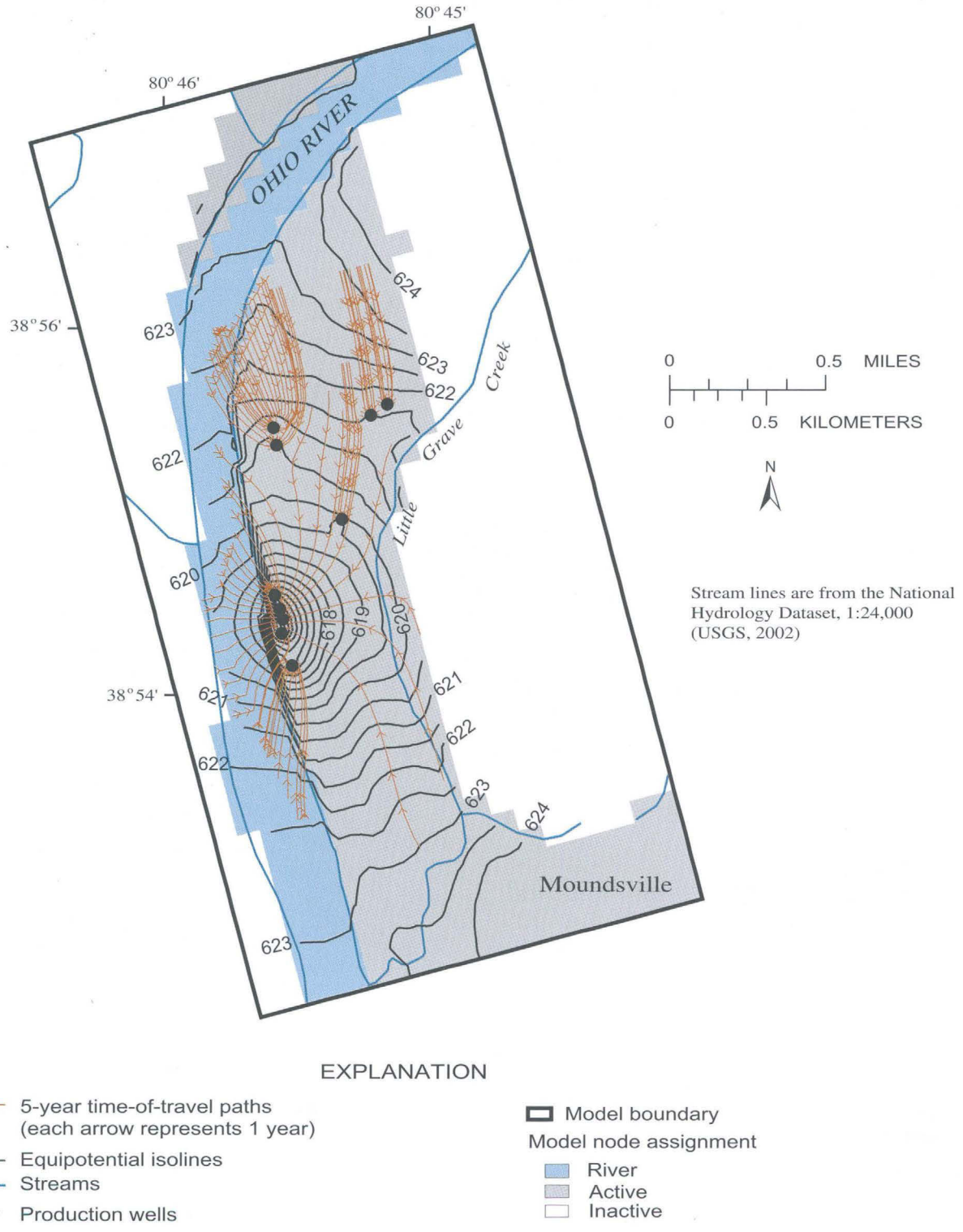


Figure 19. Calibrated heads and 5-year time-of-travel paths to the Moundsville and Glendale well fields in the lower layer of the model.

half is derived from induced infiltration directly from the Ohio River. The remainder is derived from capturing ground water that would have flowed to the Ohio River from alluvium to the north, east, and south of the well field. The 5-year time-of-travel area estimated for the well field covers an elliptical area of approximately 6,750 ft by 3,250 ft, or approximately 0.79 mi^2.

The second major pumping center is the Glendale well field. The majority of water flowing (72 percent) to the Glendale well field is induced infiltration of water from the Ohio River. A smaller percentage of flow (28 percent) is derived by capturing water from the alluvial terraces north of the well field. The 5-year time-of-travel area is small, approximately 2,750 ft by 1,150 ft, or 0.11 mi^2 (fig. 19). Two other minor pumping centers, a local gas station and a hospital, receive 100 percent of flow from the alluvium with no induced infiltration from the Ohio River. The primary recharge area for these two minor withdrawals is primarily to the north of the wells.

Sensitivity Analysis

Ground-water-flow models described in this report were designed and calibrated based on various parameters: boundary conditions, recharge, layer configurations, and hydraulic conductivity. Because boundary conditions and layer configurations were established from site-specific data and well logs, there was little opportunity to vary these parameters. Only recharge and hydraulic conductivity values could be varied in each model for calibration purposes. Sufficient data were available to develop good preliminary estimates of hydraulic conductivity and recharge. Significant variability in recharge and hydraulic conductivity resulted from variations in the composition of the alluvial sediments in each modeled area. This was especially true for the upper silt and clay confining layers for which little data were available. As a result, parameters were varied during the calibration phase to provide a best fit between observed and calculated hydraulic heads and hydrologic budgets. Parameters were also varied to determine how "sensitive" the models were to variations in input parameters.

The ranges of hydraulic conductivity and recharge rates for the various models and the effect varying these parameters had on the calibration error for the models (root mean squared and mean error) are listed in table 4. The effects of varying the parameters arepronounced in some instances and negligible in others. Overall, the models are more sensitive to variations in recharge than they are to variations in hydraulic conductivity. The models also are sensitive to the hydraulic conductivity of confining units when hydraulic conductivities are small. An example is the Washington Bottom and Moundsville upper terraces (table 4) where small changes in hydraulic conductivity have rather pronounced effects on simulated heads. As a result, known values of hydraulic conductivity were used to calibrate the models where possible. The major data limitation indicated by sensitivity analysis is information on hydraulic properties of the confining units.

Table 4. Effects of varying parameters for sensitivity analysis during model development and calibration.

[ft, feet; ft/d, feet per day; in/yr, inches per year; numbers in bold type indicate the parameters varied during the sensitivity analysis].

Description of model areas	Calibrated Model				Sensitivity Tests			
	Hydraulic conductivity (ft/d)	Recharge (in/yr)	Mean error (ft)	Root mean squared error	Hydraulic conductivity (ft/d)	Recharge (in/yr)	Mean error (ft)	Root mean squared error
Point Pleasant Area								
Point Pleasant Well Field	350	12.0	-1.41	3.80	**500**	12.0	-1.47	3.78
Point Pleasant Oxbow	87	11.0			87	**9.0**	-1.80	4.05
Camp Conley Well Field	83	12.0			**43**	12.0	0.60	3.47
Point Pleasant Confining Unit	0.1	11.0			0.1	**6.0**	-2.37	4.50
Lubeck-Washington Bottom Area								
Lubeck Wellfield	190	7.0	1.59	3.24	**300**	7.0	2.83	4.60
Washington Bottom Wellfields	190	7.0			190	**12.0**	1.96	4.81
Washington Bottom Upper Terraces	1.0	9.8			**0.5**	9.8	0.93	4.29

Table 4. Effects of varying parameters for sensitivity analysis during model development and calibration.—Continued

[ft, feet; ft/d, feet per day; in/yr, inches per year; numbers in bold type indicate the parameters varied during the sensitivity analysis].

Description of model areas	Calibrated Model				Sensitivity Tests			
	Hydraulic conductivity (ft/d)	Recharge (in/yr)	Mean error (ft)	Root mean squared error	Hydraulic conductivity (ft/d)	Recharge (in/yr)	Mean error (ft)	Root mean squared error
Washington Bottom Colluvium	190	9.8			190	**6.5**	6.49	8.28
Blennerhassett Island	250	11.0			**450**	11.0	6.86	8.67
Blennerhassett Island Upper Terraces	20	11.0			20	**15.0**	1.51	3.68
Little Hocking Wellfield	190	11.8			**95**	11.8	1.32	3.91
Reworked Ohio River Bottom Sediments	15	0.1			15	**4.0**	1.61	3.67
Parkersburg-Vienna Area								
Parkersburg Wellfield	175	6.0	1.44	3.22	**350**	6.0	1.69	3.89
Parkersburg Upper Terraces	1-2	3.0			1-2	**1.0**	1.23	3.77
Vienna Wellfield	300	9.0			**150**	9.0	1.18	4.01
Vienna Upper Terraces	3	9.0			3	**12.0**	1.95	4.08
Moundsville/Glendale Area								
Moundsville Wellfield	500	11.0	-0.51	2.10	**900**	11.0	0.14	1.86
Glendale Wellfield	500	11.0			500	**7.0**	-1.28	2.45
Moundsville Terraces	1	11.0			**0.5**	11.0	-1.00	2.36
Glendale Terraces	1	11.0			1	**15.0**	0.26	2.01

Summary

Ground-water-flow simulations were developed for alluvial aquifers bordering the Ohio River in Point Pleasant, Lubeck/Washington Bottom, Parkersburg/ Vienna, and Moundsville/Glendale, West Virginia. The models were developed to assess ground-water-flow rates and directions in alluvial aquifers and to assess the effects of large ground-water withdrawals on the ground-water flow system. This study was initiated in 2000 and was done in cooperation with the West Virginia Bureau for Public Health (WVBPH). The models can be used by water-resources managers to develop source-water protection areas for public supply wells in the study areas and in other Ohio River alluvial aquifers. Five-year time-of-travel zones, identified by use of particle tracking, were included as part of this investigation.

The geology of the areas for which ground-water models were prepared is typified by highly permeable sand and gravel glacial outwash deposits overlying bedrock. The hilly terrain of south-southeast dipping Lower Permian and Pennsylvanian age rocks is dominant in the upland areas and gives way to a flood plain less than 500 feet (ft) below. Pleistocene alluvium from glacial outwash deposits of the pre-, early-, and late-Wisconsinan age has been reworked and deposited at lower elevations, forming terraces. The alluvial deposits have the capacity to yield millions of gallons of water per day to wells, especially wells completed in river-bank deposits or completed as long horizontal lateral collector wells extending beneath the river. Fluvially deposited layers of silt and clay typically cover the

glacial outwash deposits, forming a thin overlying confining unit that limits recharge from precipitation. The confining unit is present in all modeled areas but is partially absent in the Point Pleasant area. The alluvium there, from the river bank to about 1 mile (mi) east of the river is typified by more permeable sands and to a lesser extent gravels at the base. An old meander cutoff (oxbow) in the Point Pleasant area is characterized by a confining layer of silt and clay between upper and lower alluvial aquifers.

Under base-flow conditions, hydraulic gradients typically indicate ground-water flow from the alluvium towards the river. Infiltration from the river can occur naturally when local hydraulic gradients are reversed during high river stages that are common during floods. Induced infiltration from the Ohio River is likely where the aquifer is pumped close to the river, although local heterogeneity of river bottom sediments may reduce the connection (Mathes and others, 1995; Jeffords, 1945).

No appreciable gains or losses in streamflow were detected in any of the areas and tributary streams are therefore believed to have little connection with the underlying alluvial aquifer. Discharge from surrounding bedrock aquifers serves as an additional source of ground water but is likely small in comparison to that derived from precipitation. In the absence of significant recharge from tributary streams and from bedrock, the majority of recharge under ambient conditions is from precipitation. A large part of precipitation is lost to surface runoff and evapotranspiration. Estimates of ground-water recharge for alluvial aquifers bordering the Ohio River range from 3 to 20 in/yr. Estimates of ground-water recharge applied to models in this report range from 3 to 12 (in/yr) and vary based on the composition of the alluvium. Alluvial deposits with a high percentage of sand and gravel tend to have recharge rates approaching 12 in/yr whereas the deposits with a high percentage of silt and clay (thicker and more areally extensive confining units) may have recharge rates as low as 3 in/yr.

In the study area, the alluvium varied in thickness from 45 to 100 ft. The thickness in the Point Pleasant well field was (75-95 ft), Lubeck (60-85 ft), Parkersburg (45-65 ft), Vienna (70 to 80 ft), and Moundsville/Glendale (65 to 100 ft). The average hydraulic conductivity of the alluvium in each well field was Point Pleasant (350 ft/d)), Lubeck (190 ft/d), Parkersburg (175 ft/d), Vienna (300 ft/d), Moundsville (500 ft/d), and Glendale (500 ft/d). The depth to water in the alluvium varied from 24 to 58 ft below land surface.

Because glacial outwash deposits in alluvial flats in the northern part of the study area consist of coarser grained sediments than the alluvial flats further to the south, the hydraulic conductivity of the alluvial flats to the north (300 to 500 ft/d) are typically higher than those to the south (75 to 300 ft/d). Fine-grained flood plain sediments of fluvially deposited silt and clay cover the coarser grained glacial outwash deposits but typically have very low hydraulic conductivities of 0.1 to 3.0 ft/d.

Public-supply wells in alluvial sediments along the Ohio River have the capacity to yield extremely large quantities of water. For public supplies described in this report, Parkersburg withdraws the most water at 4.78 million gallons per day (Mgal/d) and the Camp Conley Public Service District withdraws the least at only 34,000 gallons per day (gal/d). Average ground-water withdrawals for the remaining well fields are: Point Pleasant (1.09 Mgal/d), Lubeck (0.67 Mgal/d), Vienna (1.40 Mgal/d), Moundsville (2.36 Mgal/d), and Glendale (0.26 Mgal/d). Two large chemical manufacturing facilities in the area immediately north of the Lubeck well field withdraw approximately 8.80 Mgal/d and 2.06 Mgal/d, respectively. Such large withdrawals are common for industrial and public-supply wells along the Ohio River.

Results of the simulations conducted for the Point Pleasant area indicate that only a minimal amount of the water (approximately 4 percent) that is pumped from the Point Pleasant well field is derived from induced infiltration from the Ohio River. The majority of water (96 percent) is derived from a large capture zone, approximately 5,000 ft by 4,700 ft, that surrounds the Point Pleasant well field. The 5-year time-of-travel area occupies approximately 0.84 mi^2. The contaminated land to the south of the plant is within the cone of depression of the nearby Point Pleasant well field. Water from the adjacent contaminated site could potentially migrate to the Point Pleasant well field, depending on pumping scenarios in the well field. For the Camp Conley Public Service District, none of the water pumped originates from the Ohio River. The 5-year time-of-travel area for the Camp Conley well field is small, less than 0.25 mi long, and derives most of its water from a small area primarily to the east of the well field. It is not likely to be affected by the contaminated sites adjacent to the Point Pleasant well field but could be vulnerable to contamination from other potential sources of contaminants in the area.

In the Lubeck well field, ground-water flow simulations show that ground water is derived from the area immediately adjacent to the well field near Vaughts Run and Sandy Creek. Part of the flow also is derived directly from the Ohio River. Hydraulic gradients indicate that the water table near the Lubeck well field is actually at a higher elevation than the water table near the chemical manufacturing facilities in the Washington Bottom area. It does not appear likely that the Lubeck well field captures flow from the northern part of the Washington Bottom area. Of the approximately 665,000 gal of water pumped daily from the Lubeck well field, approximately 261,600 gal (39 percent) is derived from induced infiltration from the Ohio River and approximately 403,400 gal (61 percent) is derived from ground water in the alluvium that would otherwise have flowed to the Ohio River.

Ground-water flow in the alluvial aquifer near Parkersburg and Vienna is complicated and has been modified substantially by the cones of depressions formed from the major ground-water withdrawals in the area. This is especially true for the Parkersburg well field where pumping of 4.78 Mgal/d has resulted in a cone of depression approximately 2 mi long parallel to the Ohio River and approximately 1 mi wide. Conversely, cones of depression around wells in the Vienna area are much smaller. This is due to a difference in total withdrawals and in well spacing. Wells in the Vienna area, including the municipal

wells and wells at an industrial plant and nearby golf course, withdraw a total of 1.58 Mgal/d compared to 4.78 Mgal/d for the Parkersburg plant. The wells in the Vienna area are scattered over the entire alluvial flat from the southern end of Vienna to its northern terminus, whereas wells in the Parkersburg well field are clustered in a tight group on the river bank and on Neal Island. In addition, the deposits in the Parkersburg area have a higher percentage of silt and clay than do alluvial deposits in the Vienna area, and the confining unit in Parkersburg is substantially thicker than the confining unit in the Vienna area. As a result, withdrawal of ground water in the Parkersburg area produces larger cones of depression than would occur in the coarser grained deposits in the Vienna area. Approximately 75 percent of the water pumped from the Parkersburg well field is derived from infiltration of water from the Ohio River whereas only 7 percent of water pumped from the Vienna well field is derived from the Ohio River.

In the Moundsville/Glendale area, pumping from the Moundsville well field produces a large cone of depression around the well field and throughout the alluvium. Of the approximately 2.0 Mgal/d pumped from the Moundsville well field, approximately half is direct infiltration of water from the Ohio River. The remainder is derived from capturing ground water in the alluvium that would have flowed to the Ohio River from the area south of the well field. The majority of recharge (72 percent) to the Glendale well field is direct infiltration of water from the Ohio River. A smaller proportion (28 percent) of recharge is derived from precipitation falling on the alluvium. Pumping from the Glendale well field does not produce a cone of depression but rather a small 5-year time-of-travel area of approximately 0.11 mi^2.

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Scientific Investigations Report 2004-5088

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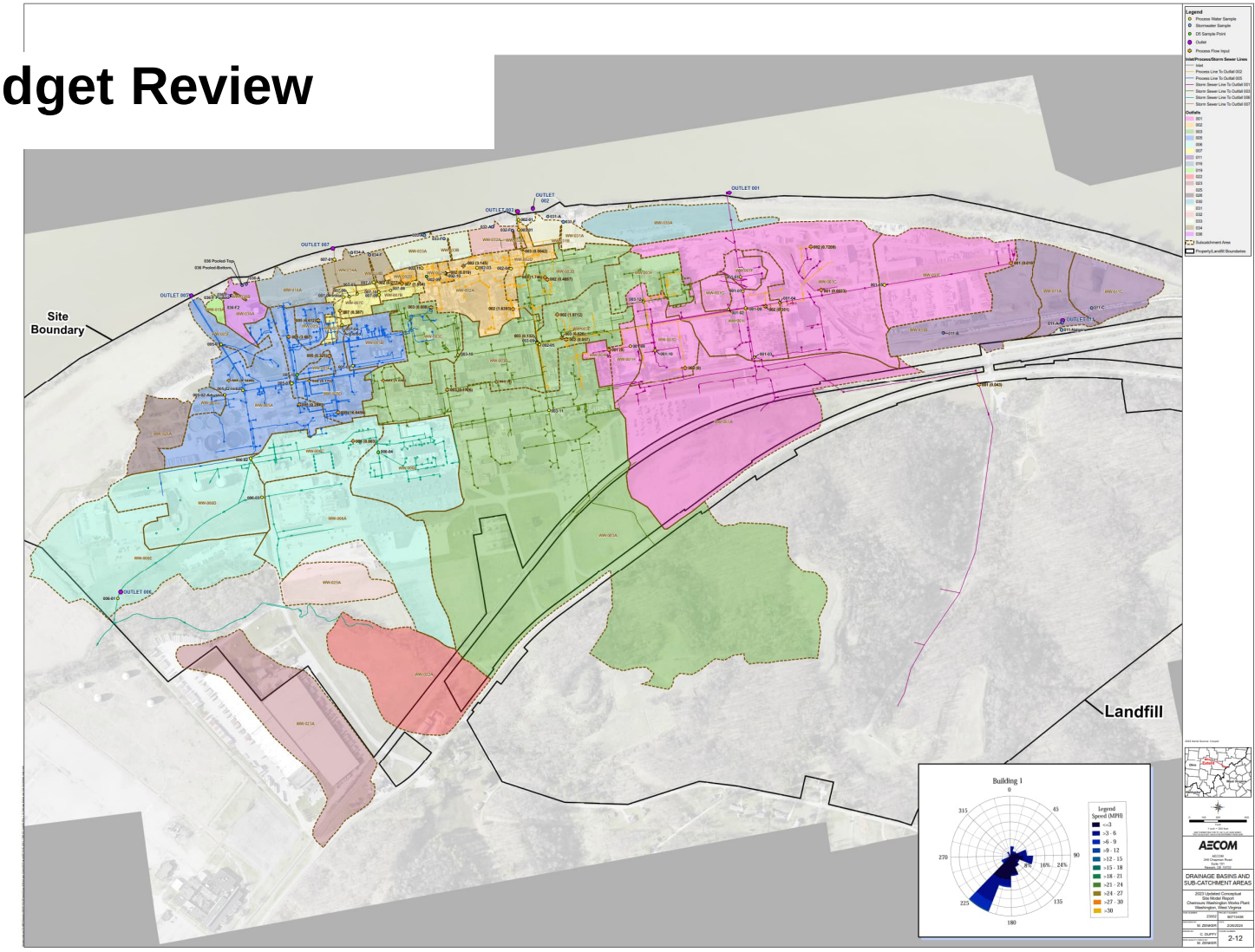
Appendix E

Preliminary Water Balance Estimate

Preliminary Water Budget Review

- Estimated Water Balance
  - Order of magnitude estimate
  - Sources/Sinks
- Hydraulic Containment



Estimated Water Budget – Sources and Sinks of Water to the Site

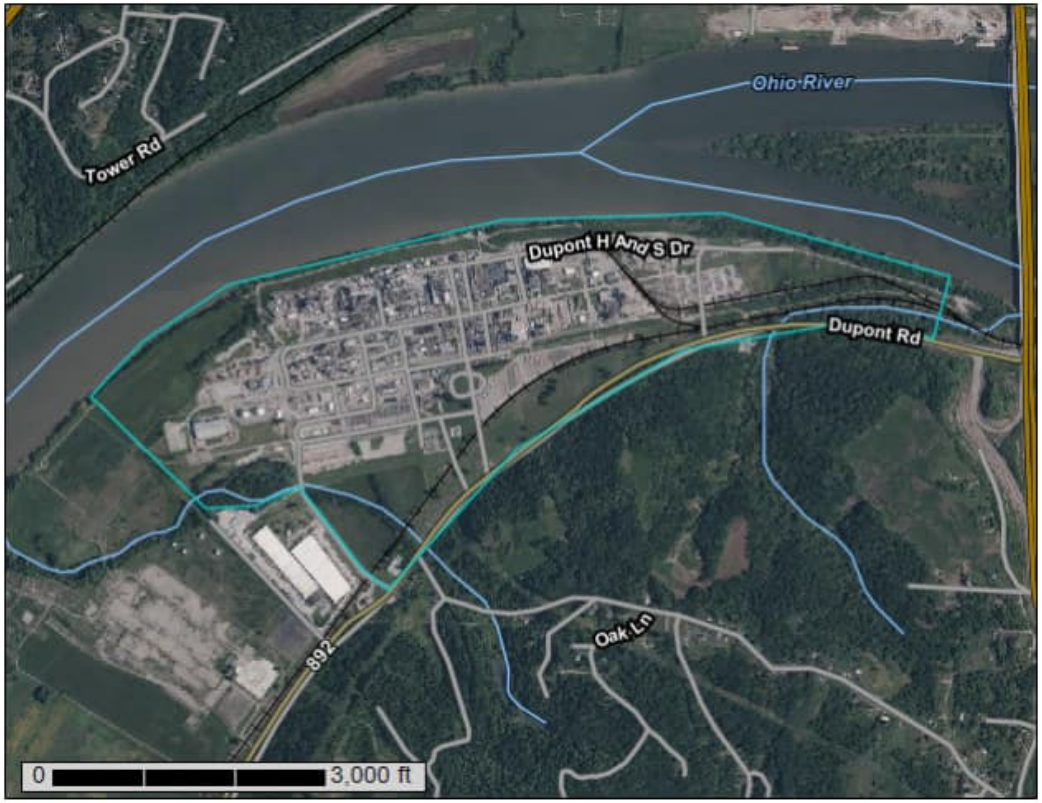
- **Sources**
  - **Precipitation** (highly variable rate)
  - **Infiltration** to the alluvial aquifer under the site **from Ohio River** (steady rate caused by gradient induced by the process water wells)
  - Groundwater flow from bedrock south of site (believed to be minor)
- **Sinks**
  - **Evapotranspiration** (seasonally active in vegetated areas)
  - **Runoff** (highly variable rate occurring when precipitation exceeds infiltration to soil)
  - **Discharge** of water from site to the Ohio River **from** process **outfalls**
- **Transfer processes** on site
  - Removal from alluvial aquifer by **process wells** (steady rate depending on process needs)
  - **Runoff** from paved areas to ditches (during precipitation events)
  - **Infiltration** to aquifer (in unpaved areas when soil field capacity exceeded)
- **Simplifying Assumptions:**
  - Annual timescale – ignores transient events that do not reflect long-term
  - Bulk estimate based on: groundwater extraction rates, land use, available precipitation and soil data

Climate Assumptions - Precipitation

Site extent within the cyan polygon at right is 414.5 acres.

Precipitation estimated from the USDA soil survey is 34 to 48 inches per year.

This equals **1,174 to 1,658 acre-feet of rainfall per year.**



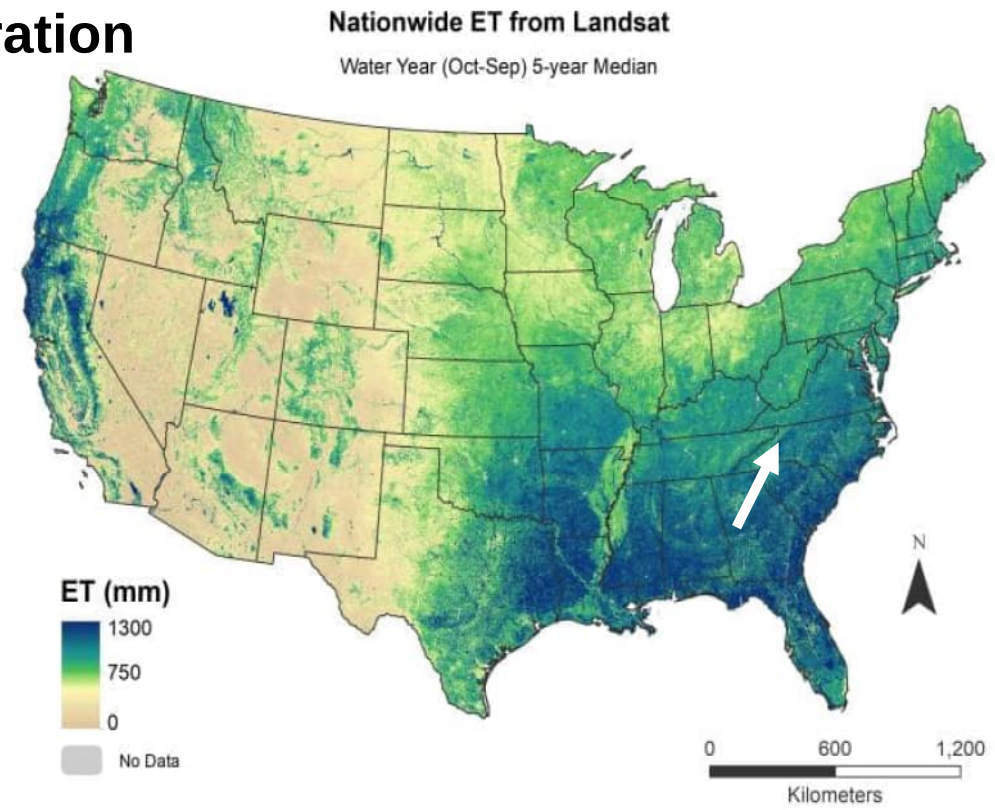
Soil map from the USDA (shown in a later slide) for the 414.5 acres shows that essentially half of the surface (209.5 acres) is “Ma” (“made land” i.e., developed).

Two-thirds of the “made land” is impermeable and graded to drain.

Climate Assumptions – Evapotranspiration

- **Evapotranspiration** is most active in summer months (and very limited in winter).
- Actual evapotranspiration data are not available for the site.
- Based on map at right, estimate about 750 mm per year (75 cm or 29.5 inches) for vegetated areas.
- For this estimate, assume Evt is fully active on vegetated soils. Assume 50% Evt on unpaved "made land" (i.e., gravel).

(https://eros.usgs.gov/doi-remote-sensing-activities/2022/usgs/landsat-actual-evapotranspiration-model-advancements-nationwide-water-use-mapping)



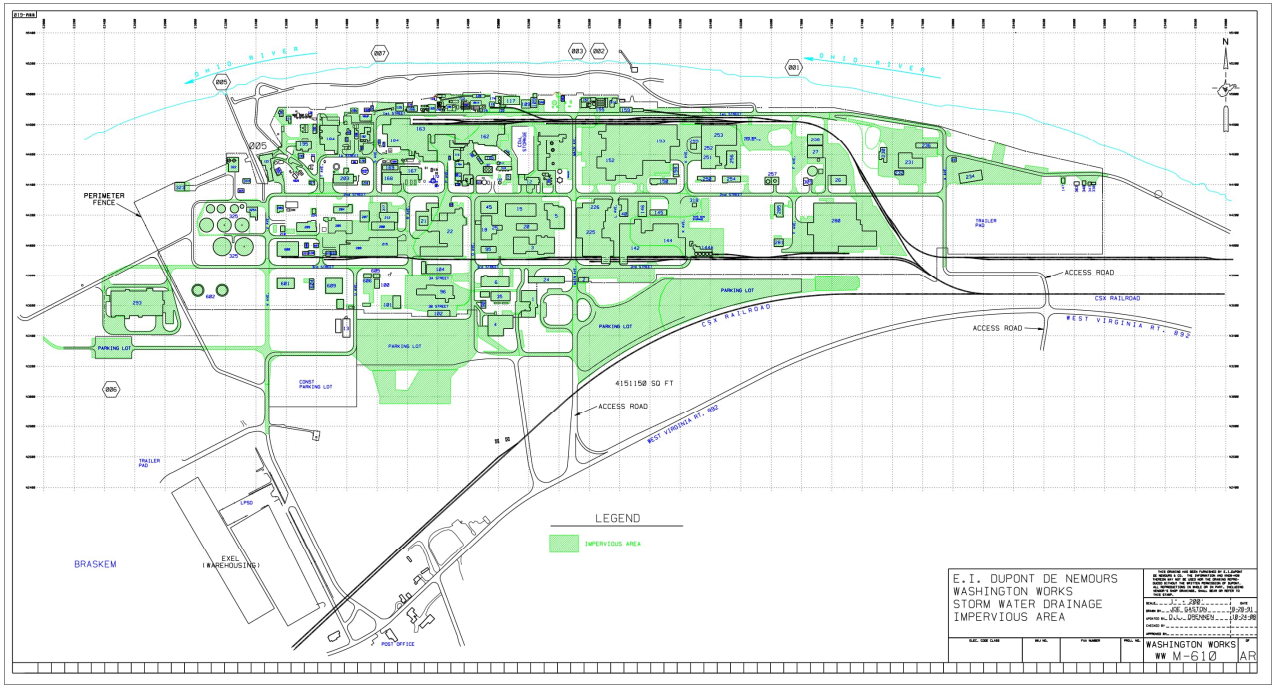
Annual Total Water-Year SSEBop Actual Evapotranspiration using 5-year median (2009, 2011, 2013, 2016, 2018) data from Landsat. No Data values represent isolated areas with missing model auxiliary input data. The associated manuscript is available here (https://doi.org/10.1016/j.rse.2022.113011).

Site Surface Conditions – Impervious Areas

Of the site area that is “made land”, roughly 2/3^{rds} (209.5 * 2/3 = 139.4 acres) is paved or otherwise impervious.

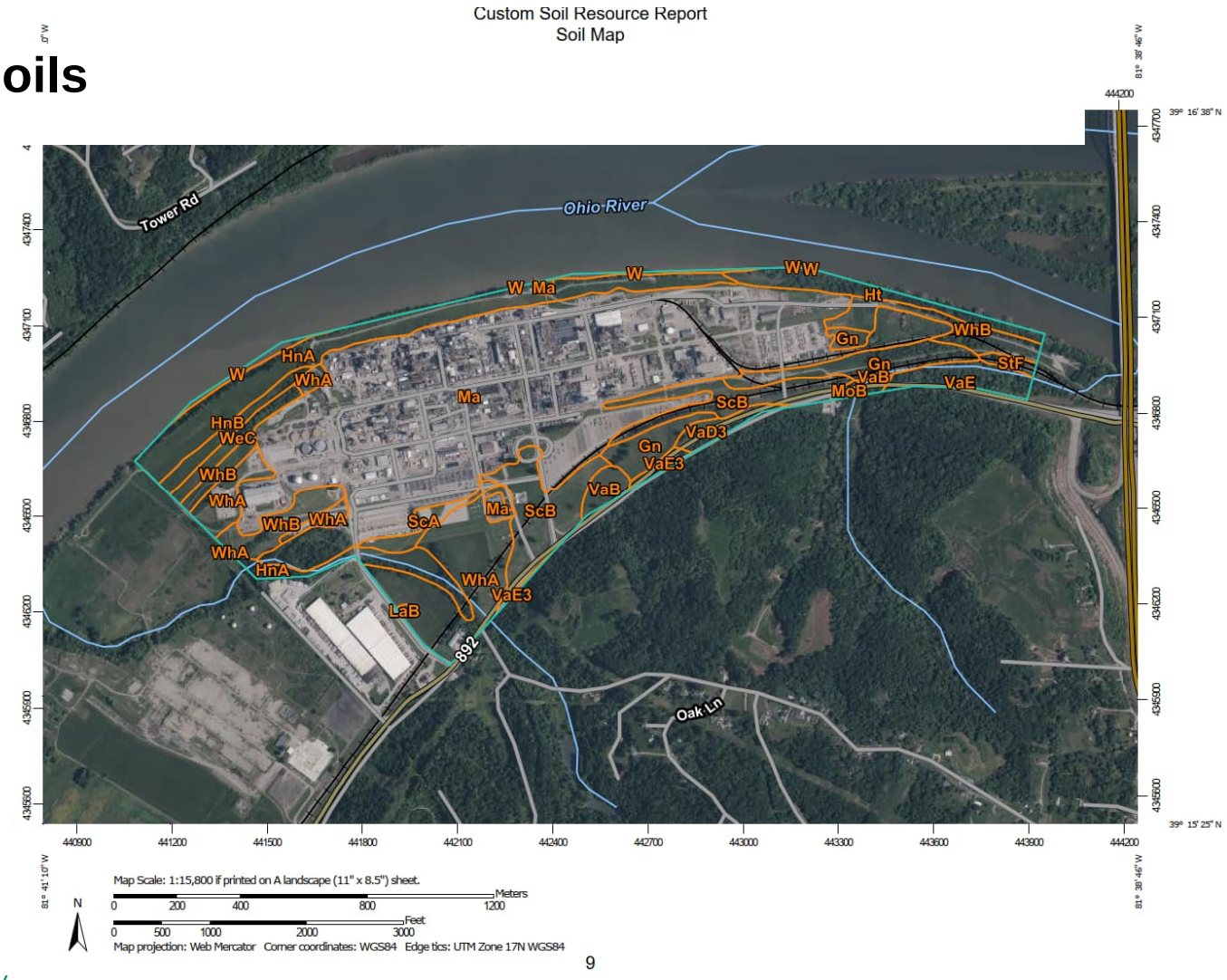
All precipitation landing on paved areas is assumed to runoff via site ditches (no infiltration or evapotranspiration).

The other “made land” is developed in some way and is assumed to have limited vegetation (assume 50% of evapotranspiration)



Site Surface Conditions - Soils

- Infiltration to the aquifer occurs when precipitation exceeds the field capacity of the soil.
- With moderately high to high infiltration rates for vegetated soil of the site, expect that this volume is significant.
- Areas disturbed by development have reduced infiltration



9

Custom soil map from the USDA's Web Soil Survey. https://websoilsurvey.nrcs.usda.gov/app/

Site Surface Conditions – Soil Types and Infiltration Potential

- After “made land”, most of the soil units in the facility are vegetated silt-loams with **moderately high to high infiltration rates**.
- Infiltration was estimated in the groundwater model (next slide)

Map Unit	Symbol Map Unit Name	Acres in AOI	Percent of AOI		Capacity of the most limiting layer to transmit water (Ksat):
Gn	Ginat silt loam	20	4.83%		Very low to moderately low (0.00 to 0.06 in/hr)
HnA	Huntington silt loam, 0 to 3 percent slopes	42.9	10.35%		Moderately high to high (0.57 to 1.98 in/hr)
HnB	Huntington silt loam, 3 to 10 percent slopes	5.4	1.30%		Moderately high to high (0.57 to 1.98 in/hr)
Ht	Huntington silt loam, low bottom	13.4	3.23%		Moderately high to high (0.57 to 1.98 in/hr)
LaB	Lakin loamy sand, 3 to 10 percent slopes	0.3	0.07%		High to very high (5.95 to 19.98 in/hr)
Ma	Made land	209.5	50.54%		Undetermined
MoB	Moshannon silt loam, 3 to 10 percent slopes	0.7	0.17%		Moderately high to high (0.57 to 1.98 in/hr)
ScA	Sciotoville silt loam, 0 to 3 percent slopes	4.3	1.04%		Moderately low to moderately high (0.06 to 0.57 in/hr)
ScB	Sciotoville silt loam, 3 to 10 percent slopes	31.3	7.55%		Moderately low to moderately high (0.06 to 0.57 in/hr)
StF	Steep land, alluvial materials	1.6	0.39%		Undetermined (assume moderate infiltration)
VaB	Vandalia silty clay loam, 3 to 10 percent slopes	4.6	1.11%		Moderately low to moderately high (0.06 to 0.57 in/hr)
VaD3	Vandalia silty clay loam, 20 to 30 percent slopes, severely eroded	4.2	1.01%		Moderately low to moderately high (0.06 to 0.57 in/hr)
VaE	Vandalia silty clay loam, 30 to 40 percent slopes	8.3	2.00%		Moderately low to moderately high (0.06 to 0.57 in/hr)
VaE3	Vandalia silty clay loam, 30 to 40 percent slopes, severely eroded	2.2	0.53%		Moderately low to moderately high (0.06 to 0.57 in/hr)
WeC	Wheeling fine sandy loam, 10 to 20 percent slopes	5.1	1.23%		Moderately high to high (0.57 to 1.98 in/hr)
WhA	Wheeling silt loam, 0 to 3 percent slopes	39.5	9.53%		Moderately high to high (0.57 to 1.98 in/hr)
WhB	Wheeling silt loam, 3 to 8 percent slopes	21.2	5.11%		Moderately high to high (0.57 to 1.98 in/hr)
	Totals for Area of Interest	414.5	100.00%		

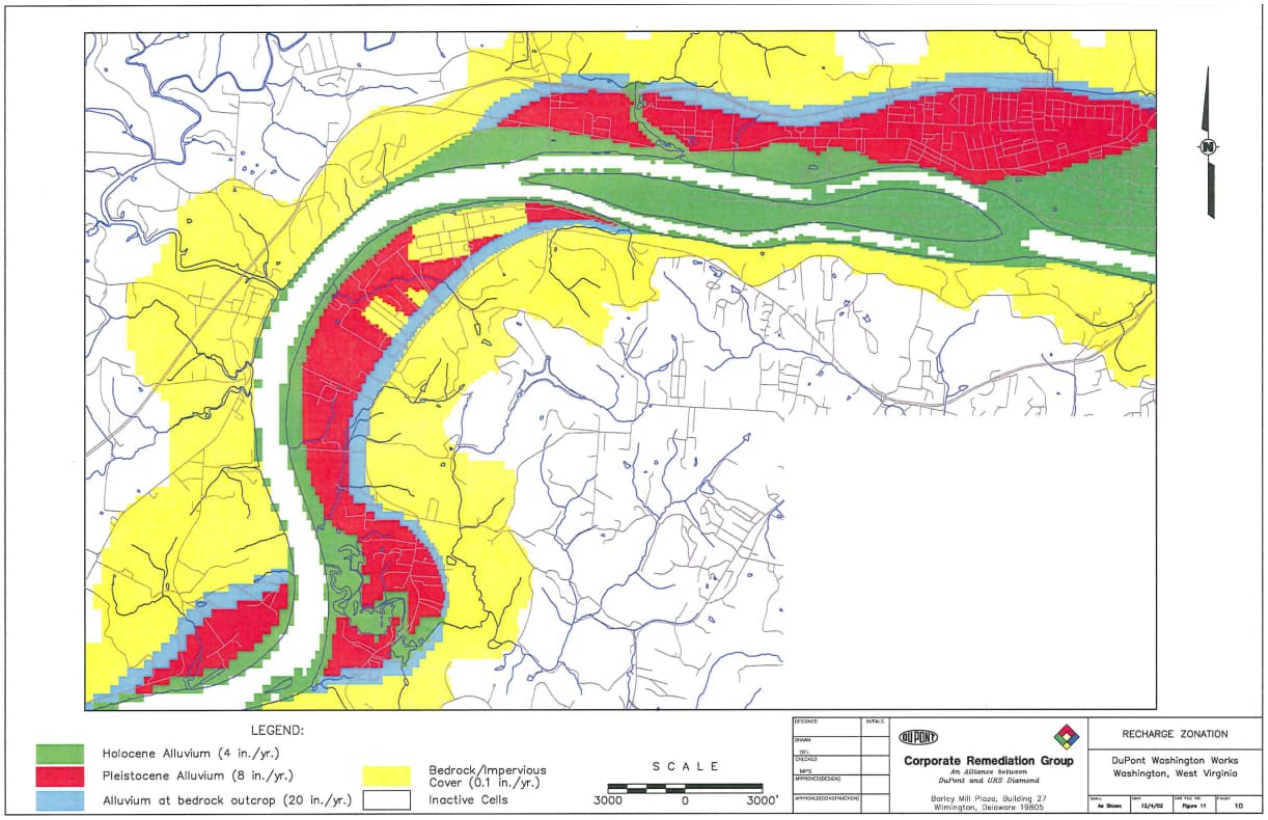
	Acreage of vegetated soils	
	Ksat	Acreage
	High to very high (5.95 to 19.98 in/hr)	0.3
	Moderately high to high (0.57 to 1.98 in/hr)	165.4
	Moderately low to moderately high (0.06 to 0.57 in/hr)	19.3
	Very low to moderately low (0.00 to 0.06 in/hr)	20

Areal estimates shown are from a custom soil report made using the USDA’s Web Soil Survey. https://websoilsurvey.nrcs.usda.gov/app/

Estimated Water Balance – Estimating Current Infiltration to Aquifer

- The site groundwater model was calibrated and adjusted the recharge zones to the alluvial aquifer.
- About half of the unpaved area (Pleistocene Alluvium) was set to 8 inches per year. The other half is split between coarse alluvium at the bedrock outcrop 20 in/yr and Holocene Alluvium (4 in/yr).

(figure from: 2003 Groundwater Modeling Report)



(Note that the current groundwater flow model had calculating 240 acre-feet pear year at the Site.)

Estimated Water Balance – Infiltration

Based on the information in the Groundwater Modeling Report and the USDA soil reports. A calculation has been made estimating infiltration

Assumptions:

Infiltration is assumed to be active on unpaved areas and vegetated soils. Rates from the model were used and applied over approximated areas.

Water that infiltrates is assumed to reach the water table (as opposed to water stored in shallow soils and later evaptranspired).

Infiltration to aquifer		
Unpaved "made land"	4	inch/year
Area of unpaved made land	69.597	acres
Infiltration through unpaved made land	23.199	acre-feet per year
Holocene Alluvium (~25% of vegetated soils)	4	inch/year
Area of Holocene Alluvium	51.375	acres
	17.125	acre-feet per year
Pleistocene Alluvium (~50% of vegetated soils)	8	inch/year
Area of Pleistocene Alluvium	102.75	acres
	68.5	acre-feet per year
Alluvium at Bedrock outcrop (~25% of vegetated soils)	20	inch/year
Area of alluvium at outcrop	51.375	acres
	85.625	acre-feet per year
Estimated Infiltration to aquifer:	194	acre-feet per year

Estimated Water Balance – Evapotranspiration

Actual evapotranspiration (Evt) estimate from the USGS map is approximately 750 mm/yr.

Assumptions:

This Evt is most applicable for vegetated areas. Areas with limited vegetation will have reduced rates and evapotranspiration from paved areas is assumed to be negligible.

This approach assumes that the loamy shallow site soils can store sufficient water so that vegetation does not become inactive in summer.

Evapotranspiration from near-surface soils		
Evapotranspiration per year (from USGS)	750	mm/yr
conversion	10	mm/cm
conversion	2.54	cm/in
Evapotranspiration per year	29.53	in/yr
Evt rate from unpaved "made land"	14.76	inch/year
Area of unpaved made land	69.60	acres
Evt from unpaved made land	85.63	acre-feet per year
Evt rate from vegetated soils	29.53	inch/year
Area of vegetated soils	205.50	acres
	505.66	acre-feet per year
Estimated Evapotranspiration from near-surface site soils:	591	acre-feet per year

Estimated Water Balance – Estimate Runoff to Outfalls

Simplifying assumptions:

Precipitation landing on impervious surfaces runs off (assume no evapotranspiration (Evt) or infiltration)

Precipitation to unpaved areas (vegetated soils) is subject to Evt and infiltration first, but precipitation exceeding those factors must runoff.

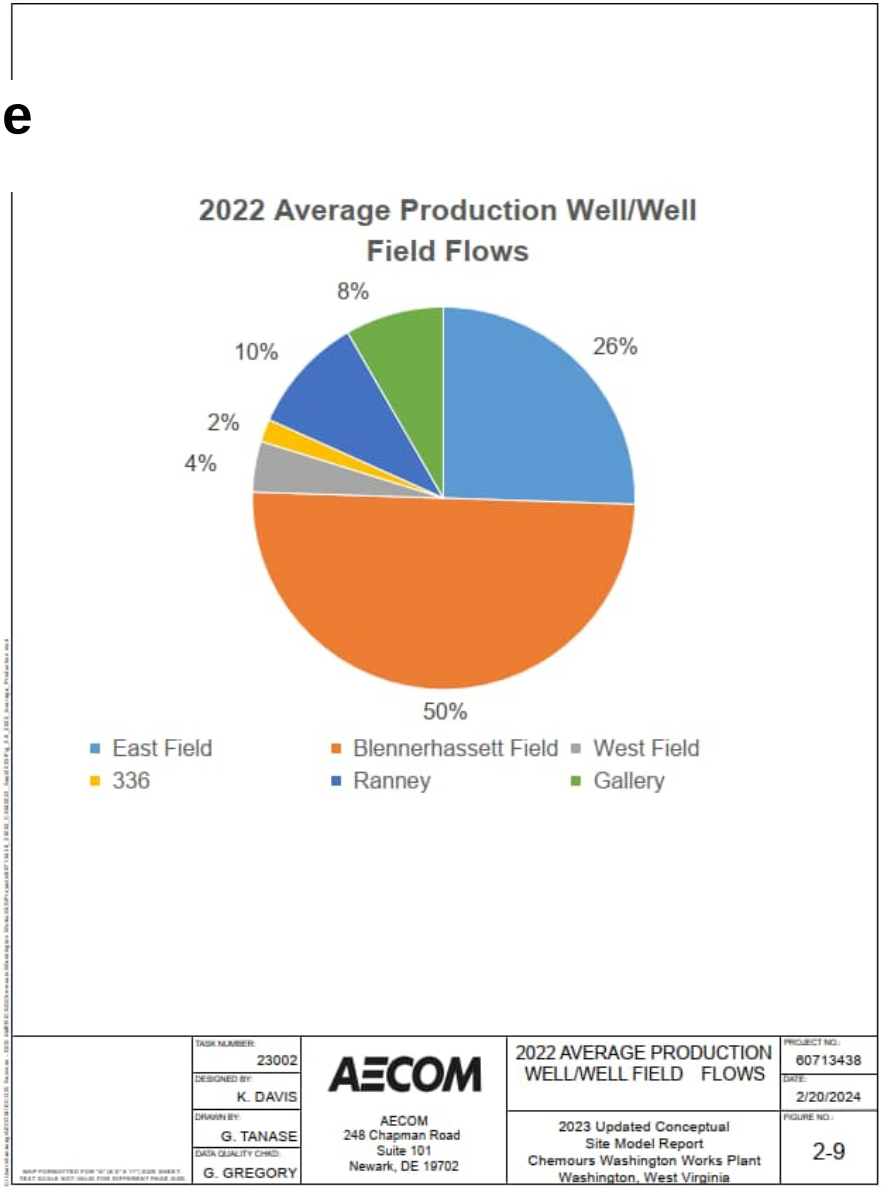
After losses from evapotranspiration and infiltration, there is approximately **389 to 872 acre-feet per year** of stormwater excess that is calculated to go to outfalls.

Runoff Estimate:		
Annual Rainfall volume (low end)	1,174	acre-feet per year
Annual Rainfall volume (high end)	1,658	acre-feet per year
Simplifying assumption: assume that runoff total is the precipitation in excess of infiltration and Evt		
Subtract: Infiltration from unpaved made land	23.20	acre-feet per year
Subtract: Infiltration from vegetated soils	171.25	acre-feet per year
Subtract: Evapotranspiration from unpaved made land	85.63	acre-feet per year
Subtract: Evapotranspiration from vegetated soils	505.66	acre-feet per year
Total of Evt and infiltration	785.73	acre-feet per year
Net runoff (low end precipitation)	388.68	acre-feet per year
Net runoff (high end precipitation)	872.27	acre-feet per year

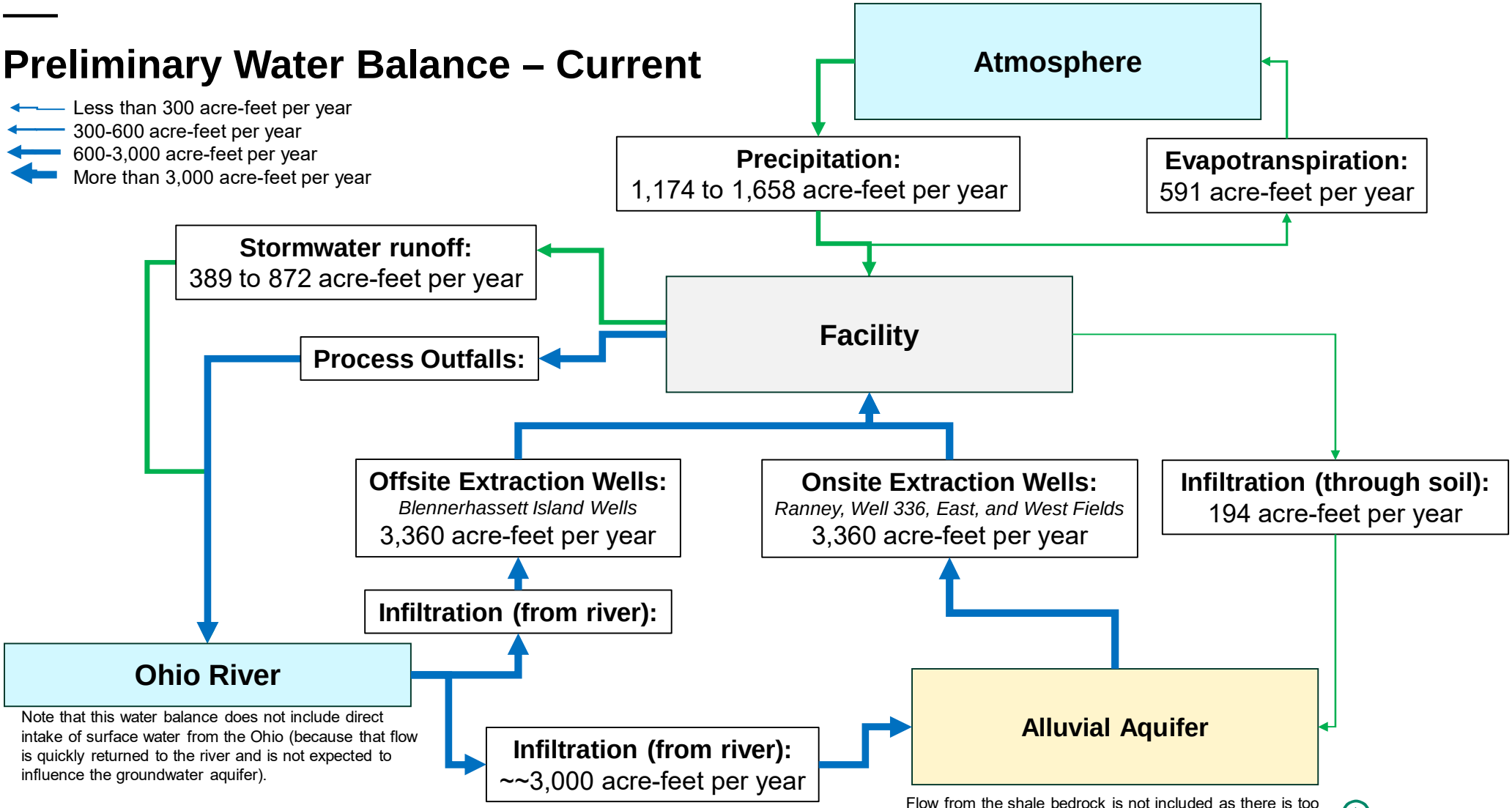
Estimated Water Balance – Process Water Use

- Current **site production processes use** 6 million gallons of groundwater per day[1] (mgd) (18.41 acre-feet per day or **6,721 acre-feet per year**).
- Approximately half of the site process water comes from wells on Blennerhassett Island (does not affect site containment).
- **Ranney Well** is **currently 10%** of the flow (672.1 acre-feet per year)
- **Ranney Well** has been **upgraded** with a 1,750 gpm treatment system (7.73 acre-feet per day; **2,823 acre-feet per year**).

1: 2022 Routine Monitoring and Corrective Measures Assessment Report.



Preliminary Water Balance – Current



Note that this water balance does not include direct intake of surface water from the Ohio (because that flow is quickly returned to the river and is not expected to influence the groundwater aquifer).

Flow from the shale bedrock is not included as there is too little information to estimate and is believed to be minor.

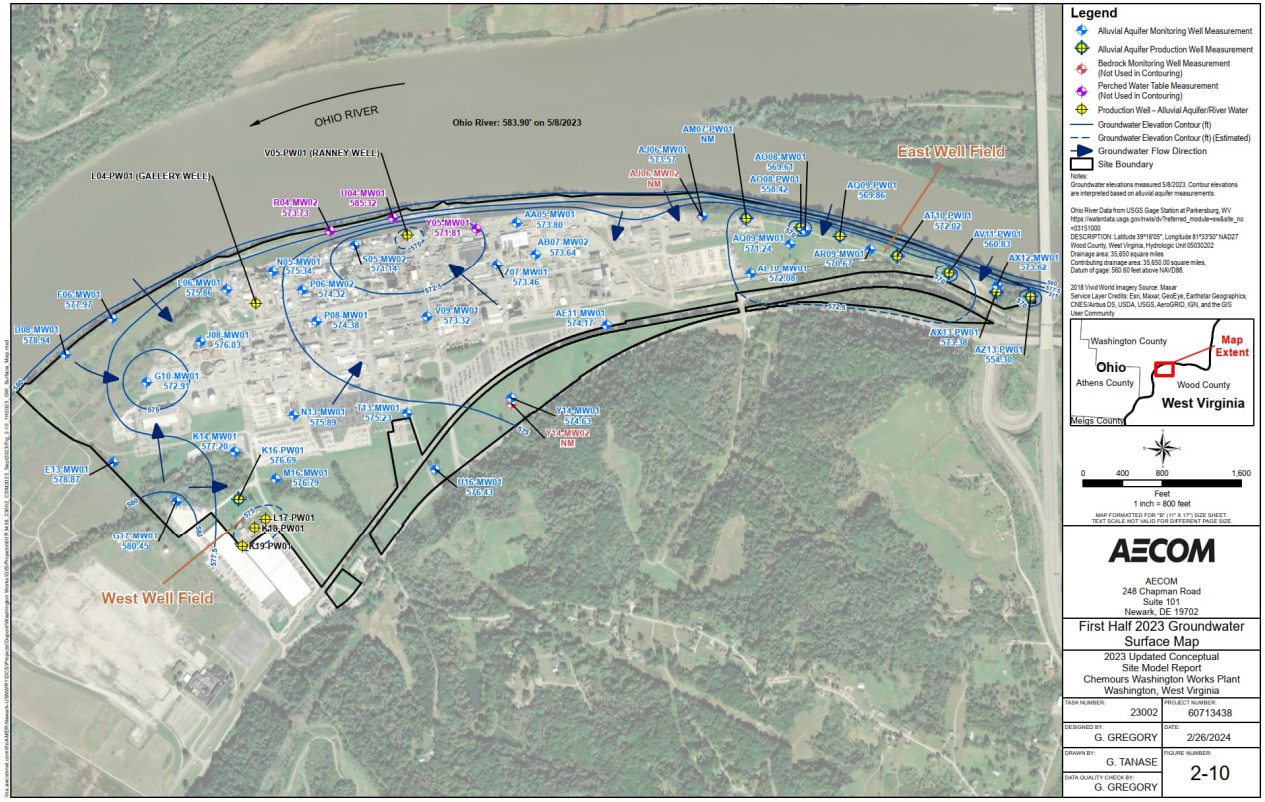
Hydraulic Containment of Groundwater – Potentiometric Surface

Arrows indicate flow direction

Water table near Ranney Well is approximately 572 feet (~11 feet lower than the Ohio River stage).

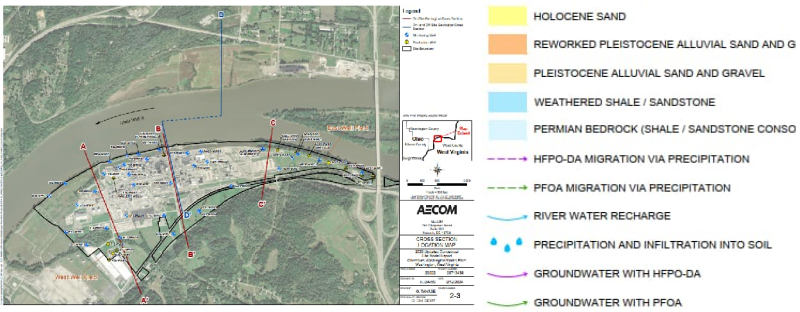
East and West Well Fields also drawdown the water table.

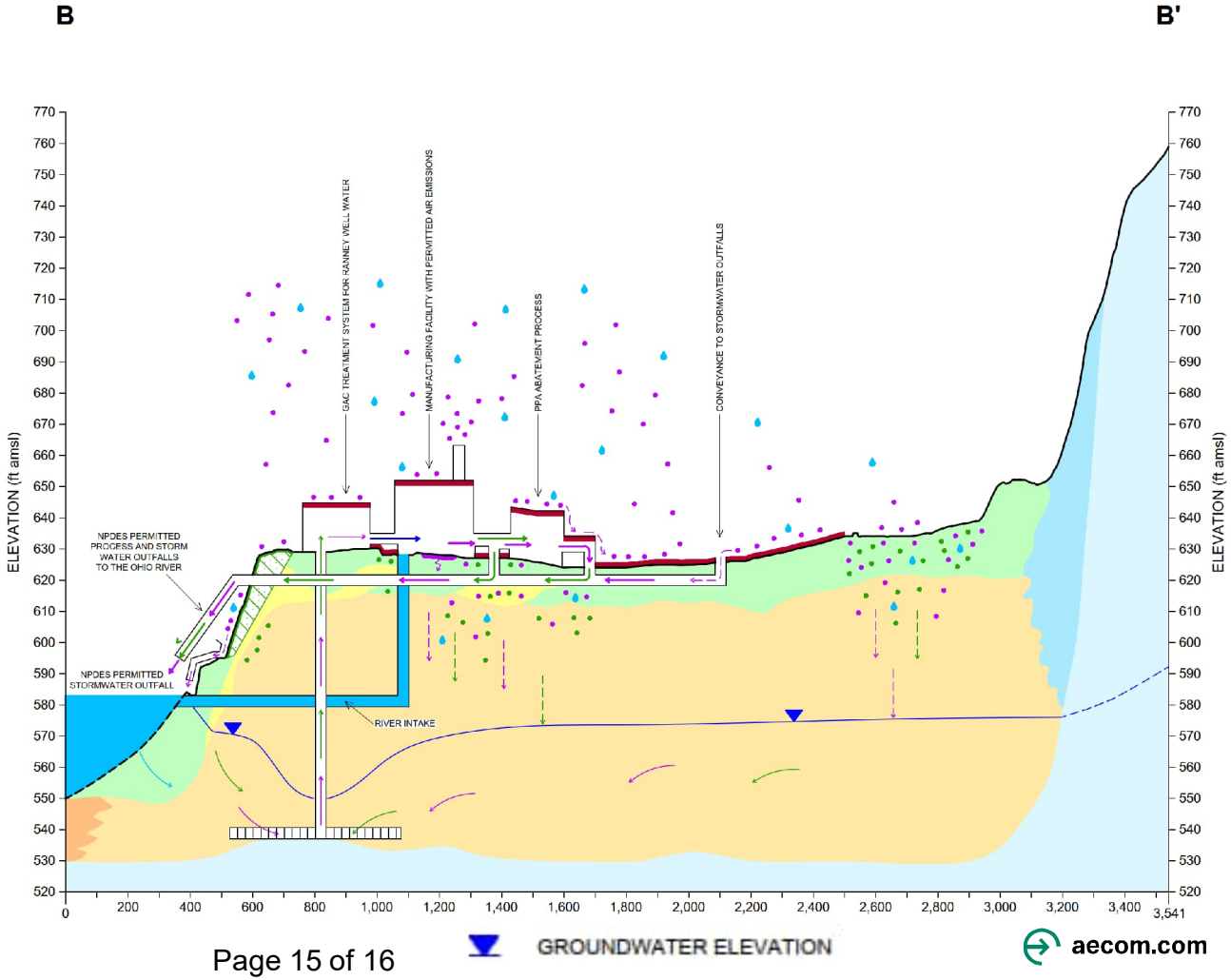
Due to the constant pumping from the site production wells, there is always an ***inward hydraulic gradient.***



Hydraulic Containment of Groundwater – Cross Sectional View

Because of the extraction system, the **water table is lower than the river** and flow is toward the extraction wells.





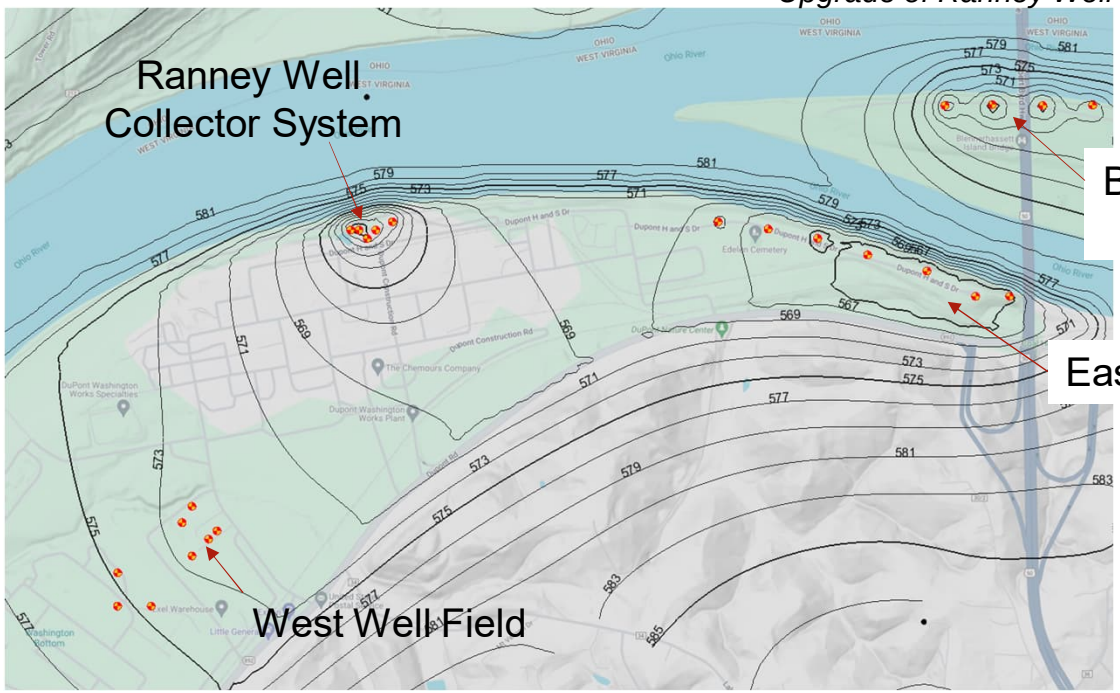
Ranney Well has Extra Capacity

Ranney Well currently operates at 1.841 acre-feet per day; (672.1 acre-feet per year), but it could be raised to 7.73 acre-feet per day (2,823 acre-feet per year).



Upgrade of Ranney Well GAC Treatment

- Ranney Well is <u>able</u> to pump *and treat* 1,750 gpm (7.73 acre-feet per day). The image at right is the <u>modeled</u> water table <u>if</u> Ranney operates at that rate.
- **Ranney Well could provide an additional 2,151 acre-feet per year** from the aquifer if needed.



Preliminary Water Budget Estimate
Chemours Washington Works

			Notes
Site Extent:	414.5	acres	Used USDA Soil Map
Area of site that is "made land"	209	acres	USDA soil map
%tage of site that is impermaeable	66.70%		visual estimate from map of impermeable areas
Area of site that is impermaeable	139.403	acres	will assume no infiltration of evapotranspiration
Area of site that is "unpaved made land"	69.597	acres	50% of Evt/infiltration 4"/yr; excess runs off
Area of site that is "vegetated soil"	205.5	acres	assume full Evt value/infiltration; excess runs off
Precipitation			
Annual Precipitation (low end)	34	inch/year	data from USDA soil report
Annual Precipitation (high end)	48	inch/year	data from USDA soil report
conversion	*12*	*in/ft*	
Annual Rainfall volume (low end)	1,174	acre-feet per year	amount falling on entire site
Annual Rainfall volume (high end)	1,658	acre-feet per year	amount falling on entire site
Infiltration Rates			from Groundwater Modeling Report
Paved areas	0	inch/year	
Unpaved "made land"	2	inch/year	assume 50% of the rate of Holocene alluvium
Holocene Alluvium (vegetated soil)	4	inch/year	from Groundwater Modeling Report
Pleistocene Alluvium (vegetated soil)	8	inch/year	from Groundwater Modeling Report
Alluvium at Bedrock outcrop (vegetated soil)	20	inch/year	from Groundwater Modeling Report
Infiltration to aquifer			
Unpaved "made land"	4	inch/year	assume same as Holocene estimate
Area of unpaved made land	69.597	acres	1/3rd of "made land"
Infiltration through unpaved made land	23.199	acre-feet per year	
Holocene Alluvium (~25% of vegetated soils)	4	inch/year	of the area that is not paved ~ 1/4th is Holocene alluvium (see Figure 10 in the GW Modeling Report)
Area of Holocene Alluvium	51.375	acres	Figure 10 from GW Modeling Report
	17.125	acre-feet per year	
Pleistocene Alluvium (~50% of vegetated soils)	8	inch/year	
Area of Pleistocene Alluvium	102.75	acres	Figure 10 from GW Modeling Report
	68.5	acre-feet per year	
Alluvium at Bedrock outcrop (~25% of vegetated soils)	20	inch/year	of the area that is not paved ~ 1/4th is alluvium at the bedrock outcrop (see Figure 10 in the GW Modeling Report)
Area of alluvium at outcrop	51.375	acres	
	85.625	acre-feet per year	
Estimated Infiltration to aquifer:	194	acre-feet per year	combining infiltration from unpaved made land and the three vegetated soils
Evapotranspiration from near-surface soils			
Evapotranspiration per year (from USGS)	750	mm/yr	(https://eros.usgs.gov/doi-remote-sensing-activities/2022/usgs/landsat-actual-evapotranspiration-model-advancements-nationwide-water-use-mapping)
conversion	10	mm/cm	
conversion	2.54	cm/in	
Evapotranspiration per year	29.53	in/yr	this value is actual Evt - not potential Evt
Evt rate from unpaved "made land"	14.76	inch/year	assume 50% of rate of vegetated soils
Area of unpaved made land	69.60	acres	1/3rd of "made land"
Evt from unpaved made land	85.63	acre-feet per year	
Evt rate from vegetated soils	29.53	inch/year	
Area of vegetated soils	205.50	acres	Figure 10 from GW Modeling Report
	505.66	acre-feet per year	
Estimated Evapotranspiration from near-surface site soils:	591	acre-feet per year	

Preliminary Water Budget Estimate
Chemours Washington Works

Runoff Estimate:

Annual Rainfall volume (low end)	1,174	acre-feet per year	
Annual Rainfall volume (high end)	1,658	acre-feet per year	
Simplifying assumption: assume that runoff total is the precipitation in excess of infiltration and Evt			
Subtract: Infiltration from unpaved made land	23.20	acre-feet per year	from above estimate
Subtract: Infiltration from vegetated soils	171.25	acre-feet per year	from above estimate
Subtract: Evapotranspiration from unpaved made land	85.63	acre-feet per year	from above estimate
Subtract: Evapotranspiration from vegetated soils	505.66	acre-feet per year	from above estimate
Total of Evt and infiltration	785.73	acre-feet per year	sum of infiltration and Evt
Net runoff (low end precipitation)	388.68	acre-feet per year	precipitation - infiltration - Evt
Net runoff (high end precipitation)	872.27	acre-feet per year	precipitation - infiltration - Evt

Extraction of Groundwater by Site			
Site production flow	6,000,000	gallons per day	from 2022 site water use report
conversion	*325,851*	*gallons per acre-foot*	
	18.41	acre-feet per day	
	6720.86	acre-feet per year	
Flow Contribution: Blennerhassett Well Field (~50%)	3360.43	acre-feet per year	
Flow Contribution: Onsite Well Fields (~50%)	3360.43	acre-feet per year	
Infiltration to aquifer onsite	194.45	acre-feet per year	from above infiltration calculation
Water from Ohio River	3,166	acre-feet per year	If extracted water is not from infiltration, then it must be from the river water or bedrock (too little information to estimate)
Ranney current flow (2022)	10.00%	of all flow	of site GW extraction based on 2022 water use report
Ranney current flow (2022)	1.84	acre-feet per day	
Ranney current flow (2022)	672.1	acre-feet per year	
Ranney well treatment capacity (potential)	2,520,000	gallons per day	per site
Ranney well treatment capacity (potential)	7.73	acre-feet per day	
Ranney well treatment capacity (potential)	2823	acre-feet per year	
How much more could Ranney pump?	2151	acre-feet per year	

Appendix F

FC-143 Analysis

3M

3M Specialty Materials
PRODUCT SPECIFICATION

FC-143 **Revision:** 4
FLUORAD (TM) Fluorochemical Surfactant

Effective Date: 07/20/98 **Superseding Date:** 04/06/98 **Status:** Effective

REASON FOR REVISION:
Change Absorbance property names (7/20/98).

Property	Test Method	Unit	Lower	Target	Upper
pH (2% aqueous solution)	30.2		4.0		7.0
Perfluorooctanoic Acid (Results based on 100% solids)	171.140.7	%	96.5		
Perfluorohexanoic Acid (Results based on 100% solids)	171.140.7	%			1.4
Ammonium Persulfate Consumption (20% solution)	71.5.1	%			0.08
Absorbance at 280 nm (20% solution.)	71.5.1	abs/cm			0.60
APHA Color (20% solution)	96.1				100
Iron (20% solution. Results based on 100% solids)	58.47	ppm			5.0

FOOTNOTE:

SHELF LIFE STATEMENT:
The shelf life is two years from the date of manufacture if stored at room temperature in the original, unopened container.

AUTHOR:
Linda T. Miller/US-Corporate/3M/US

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Appendix G

Administrative Compliance Order on Consent – Per- and Polyfluoroalkyl Substances (PFAS) Analysis of Process Water Effluent and Stormwater Outlets at the Chemours Washington Works Facility Final Report. October 2024

Laboratory data submitted with this final report is not included in this appendix.

Administrative Compliance Order on Consent – Per- and Polyfluoroalkyl Substances (PFAS) Analysis of Process Water Effluent and Stormwater Outlets at the Chemours Washington Works Facility Final Report

Prepared by:
The Chemours Company
1007 N. Market Street
Wilmington, DE 19898

Date: October 2024

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Table 1 Analytical Results for DRAFT EPA 1633, Top Assay and DRAFT EPA Method 1621

Figures

Figure 1 Site and Sample Locations

Appendices

Appendix A *Administrative Compliance Order on Consent – Per- and Polyfluoroalkyl Substances (PFAS) Analysis of Stormwater Runoff and Effluent Wastewater at the Chemours Washington Works Facility*

Appendix B Field Readings, Field Sheets, and Photographs of Stormwater Outlets

Appendix C Laboratory Reports

1.0 Introduction

U.S. Environmental Protection Agency (EPA) issued an Administrative Compliance Order on Consent (ACO) under Section 309(a) of the Clean Water Act, 33 U.S.C. § 1319(a) to The Chemours Company FC, LLC (Chemours) Washington Works Facility (Site) in Parkersburg, West Virginia, on April 5, 2023.

Section III.44. of the ACO requires Chemours to implement the *Field Sampling Plan for Administrative Order on Consent (AOC) Sample Collection* prepared by Chemours in March 2023 (Sampling Plan; included as Exhibit 3 of the ACO) to characterize the nature of the stormwater runoff and effluent wastewater leaving the Site. This Sampling Plan described conducting specified per- and polyfluoroalkyl substances (PFAS) sampling to identify and quantify PFAS discharges at each permitted outlet using draft EPA Method 1621 (for absorbable organic fluorine), draft EPA Method 1633, total oxidizable precursor (TOP) assay, and non-targeted analysis (NTA).

As described in the Sampling Plan, samples were to be collected during normal operations when the facility was manufacturing and/or processing PFAS. “Normal operations” included all operating periods other than periods associated with startup, shutdown, equipment malfunction, or upset. Samples were to be grab samples collected at the time of day when typical, representative wastewater volumes were expected (including stormwater component to mixed discharges). Prior to the sampling event, it was also determined that a precipitation event of approximately 0.3 inches of rain were needed for there to be sufficient flow in the outlets for sampling to occur. Stormwater and wastewater outlets were sampled on March 26, 2024.

As of early June 2024, results for analytical methods except the NTA had been finalized and those results were submitted to EPA in the *Administrative Compliance Order on Consent – Per- and Polyfluoroalkyl Substances (PFAS) Analysis of Stormwater Runoff and Effluent Wastewater at the Chemours Washington Works Facility* technical memo on June 12, 2024 (see Appendix A).

In September 2024, the NTA results were finalized. This report includes details of the sampling event (field readings, field sheets, and photographs of stormwater outlets), the analytical results for the four methods used including the laboratory reports, and a summary of observations on the results.

2.0 Sampling Activities

2.1 Sampling Locations

As described in Section 1.3 of the Sampling Plan, water was sampled from the following process water effluent and stormwater outlets:

- Process Water Effluent Outlets:
  - 001
  - 002
  - 003
  - 005
  - 006
  - 007
- Stormwater Outlets
  - 011
  - 016
  - 022
  - 023
  - 025
  - 030
  - 031
  - 032
  - 033
  - 034
  - 036

Figure 1 shows the process water effluent and stormwater outlets listed above.

2.2 Precipitation Monitoring

As per Section 2.1 of the Sampling Plan, samples were collected during normal operations when the facility was manufacturing and/or processing PFAS with “Normal operations” including all operating periods other than periods associated with startup, shutdown, equipment malfunction, or upset.

Based on Site knowledge, it was understood that in order for there to be flow in the stormwater outlets, a rainfall event of a specific amount and or duration would be required. Once the NTA procedures and validation process were approved by EPA on September 15, 2023, precipitation conditions were monitored closely. A precipitation event of the required amount and/or duration had not yet occurred during routine working hours and under storm conditions such that the samples could safely be taken as of March 2024. On March 26, 2024, rain started at 7:00 AM. Outlets started having flow approximately noon, and sample collection began as described in Section 2.3 below. In total, 1.05 inches of rain fell during this precipitation event.

2.3 Sample Collection

As per Sections 1.7 and 1.8 of the Sampling Plan, grab sampling was performed at the outlets. Field measurement monitoring was completed as described in Sections 2.3 and 3.2 of the Sampling Plan. Sample labeling was completed as described in Sections 2.5

and 3.0 of the Sampling Plan, and field sample handling and Chain-of Custody were completed as per Section 3.3 of the Sampling Plan. Collection of grab samples was completed as described in Section 2.7 of the Sampling Plan and was started at 12:45 PM and was completed by 2:10 PM. However, Outlet 019 was not flowing at the time the grab samples were collected; therefore, no sample could be collected. Quality control (QC) samples were collected as per Section 2.7.2 of the Sampling Plan. Field QC samples included an equipment blank, a field blank ,and a field duplicate and were prepared by the laboratory as per Section 2.7.3 of the Sampling Plan with the contract laboratory performing QC for these supplies as specified in their standard operating procedures, such as analyzing blanks for each lot of sample containers and blank water. Sample packing and shipment was completed as per Section 2.8 of the Sampling Plan.

Data verification is a completeness check to confirm that required activities were conducted, specified records are present, and the contents of the records are complete. Field data verification procedures were completed as per Section 4.0 of the Sampling Plan. Appendix B provides the field readings, field sheets, and photographs of stormwater outlets. No photographs were taken of the process water effluent outlets.

3.0 Analytical Methods

As described in the Sampling Plan, outlet samples were to be analyzed via four methods by contract laboratory Eurofins Lancaster Laboratories Environmental (ELLE) Testing, LLC (located in Lancaster, Pennsylvania) or Eurofins Environment Testing (located in West Sacramento, California) as indicated below:

- Draft EPA Method 1633 analyzed by ELLE
- TOP assay referencing methods described in *Oxidative Conversion as a Means of Detecting Precursors to Perfluoroalkyl Acids in Urban Runoff* (Houtz and Sedlak, 2012) with the analysis for PFAS (before and after TOP procedure) via 537 Modified analyzed by ELLE
- NTA was conducted as described in the *Non-Targeted Analysis (NTA) Procedure and Validation* developed by Eurofins Environment and approved by EPA on September 15, 2023, with analysis performed by Eurofins Environment. (The NTA Procedure is provided in the laboratory report for the NTA, which is provided in Appendix C.)
- Draft EPA Methods 1621 for absorbable organic fluorine analyzed by ELLE

As per Section 2.7.3 of the Sampling Plan, with the exception of the NTA analyses, the laboratories used standard analytical methods, conducted using method-specific standard operating procedures developed based on method requirements, and the laboratories complied with the quality assurance and QC requirements specified in 40 CFR §136.7. Laboratory data verification procedures were completed as per Section 4.0 of the Sampling Plan. Data validation procedures were completed as per Section 5.0 of the Sampling Plan.

As per Section 5.4 of the Sampling Plan, laboratory reports are included in Appendix C. Laboratory reports include raw data submitted to EPA in electronic form. This includes all raw instrument data files, the complete feature table with data processing details, the complete dataset with all the picked/annotated features, the annotations (accurate mass, formula predictions, IDs, scores, etc.), abundances, and the feature chromatograms.

4.0 Analytical Results and Observations

4.1 Analytical Results

Table 1 provides the DRAFT EPA method 1633 results, the TOP assay results, and the DRAFT EPA Method 1621 results. Results for the NTA are provided in the laboratory report narrative. Results for the NTA showed only one sample, 016-032624, which was collected from stormwater Outlet 016, for which one "suspect analyte" was identified. The suspect analyte in the sample from Outlet 016 was identified as hydrogen-substituted perfluorohexanoic acid.

4.2 Chemours' Observations

For the DRAFT EPA Method 1633 results, Chemours notes the following:

- The results presented here for process water effluent and stormwater outlets at the Site align with the results presented in the Tables 5-11 and 5-13 in the *2023 Updated Conceptual Site Model Report* (submitted to EPA on March 4, 2024). Tables 5-11 and 5-13 provide a summary of the PFAS results for the Site process outlets and stormwater outlets, respectively, between August 2018 through December 2023. The data in those tables show that perfluorooctanoic acid (PFOA) and hexafluoropropylene oxide dimer acid (HFPO-DA), in general, have the maximum concentrations, which are an order of magnitude or two above a second set of PFAS (3 to 6 depending on location), which are an order of magnitude higher in concentration than a handful of PFAS (again, 3 to 6 depending on location) in the low to single digit nanograms per liter (ng/L) range.
- The new results presented here show the same trend in concentrations with HFPO-DA and PFOA present typically at an order of magnitude higher than a second set of 3 to 4 PFAS, which vary depending on location at the Site and which are present at an order of magnitude above a third set of 3 to 4 PFAS which are present at low ng/L concentrations.
- Notably, sulfonate PFAS (perfluorooctane sulfonic acid [PFOS], perfluorohexane-1-sulphonic acid [PFHxS], perfluorobutane sulfonate [PFBS]) are present at very low to less than the reporting limit concentrations in this data set.

For the TOP assay results, Chemours notes the following:

- Comparing the "Pre" and "Post" sample pair results, most of the "Post" results show lower concentrations than the "Pre," which indicates that there are no precursors present in the Site process water effluent and stormwater samples.

For the NTA results, Chemours observes the following:

- Only one of the 20 samples, a stormwater sample collected at Outlet 016, showed the presence of suspect analytes and only one suspect analyte was identified.
- Nineteen of the 20 process water effluent and stormwater outlet samples were shown to have no non-targeted compounds identified, which indicated that there are no unknown PFAS or precursors present in these samples.

- The combination of results from these three methods support that the PFAS chemistry at the Site is well characterized and that there are no precursors present.

Because the AOF method is relatively new, Chemours declines to make observations on this data set.

5.0 Summary of Observations

For this project, process water effluent and stormwater outlet samples were collected from 19 locations at the Site on March 26, 2024. These samples were analyzed using three targeted methods, DRAFT EPA Method 1633, TOP assay, and Draft EPA Methods 1621 for absorbable organic fluorine, and also by NTA.

No observation was made on the absorbable organic fluorine as the method is relatively new. Nineteen of the 20 process water effluent and stormwater outlet samples were shown to have no non-targeted compounds identified, which indicated that there are no unknown PFAS or precursors present in these samples. The combination of results from the DRAFT EPA Method 1633, TOP assay and NTA support that the PFAS chemistry at the Site is well characterized and that there are no precursors present.

6.0 References

E.F. Houtz, D.L. Sedlak *Oxidative conversion as a means of detecting precursors to perfluoroalkyl acids in urban runoff* Environ. Sci. Technol., 46 (2012), pp. 9342-934

Tables

Figures

Appendices

Appendix A

Administrative Compliance Order on Consent – Per- and Polyfluoroalkyl Substances (PFAS) Analysis of Stormwater Runoff and Effluent Wastewater at the Chemours Washington Works Facility

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Project name:
ACO Stormwater Sampling

Project ref:
60707758

To:
Erik Sims, Chemours

CC:
Andrew Hartten, Chemours

From:
Katherine Davis, AECOM

Date:
June 12, 2024

Memo

Subject: Administrative Compliance Order on Consent – Per- and Polyfluoroalkyl Substances (PFAS) Analysis of Stormwater Runoff and Effluent Wastewater at the Chemours Washington Works Facility

Introduction

U.S. Environmental Protection Agency (EPA) issued an Administrative Compliance Order on Consent (ACO) under Section 309(a) of the Clean Water Act, 33 U.S.C. § 1319(a) to The Chemours Company FC, LLC (Chemours) Washington Works Facility in Parkersburg, West Virginia, on April 5, 2023.

Section III.44. of the ACO requires Chemours to implement the *Field Sampling Plan for Administrative Order on Consent (AOC) Sample Collection* prepared by Chemours in March 2024 (Sampling Plan; included as Exhibit 3 of the ACO) to characterize the nature of the stormwater runoff and effluent wastewater leaving the site. This Sampling Plan described conducting specified per- and polyfluoroalkyl substances (PFAS) sampling to identify and quantify PFAS discharges at each permitted outlet using draft EPA Method 1621 (for absorbable organic fluorine), draft EPA Method 1633, total oxidizable precursor (TOP) assay, and non-targeted analysis (NTA).

To date, results for analytical methods except the NTA have been finalized. This memo provides those results. A final report will be issued once the NTA results are finalized and will include the field notes, the analytical results, and the laboratory reports.

Sampling Activities

As described in the Sampling Plan, samples were to be collected during normal operations when the facility was manufacturing and/or processing PFAS. “Normal operations” included all operating periods other than periods associated with startup, shutdown, equipment malfunction, or upset. Samples were to be grab samples collected at the time of day when typical, representative wastewater volumes were expected (including stormwater component to mixed discharges). Prior to the sampling event, it was also determined that a precipitation event of approximately 0.3 inches of rain was needed for there to be sufficient flow in the outlets for sampling to occur.

Stormwater and wastewater outlets were sampled on March 26, 2024. As described in the Sampling Plan, water was sampled from the following process water effluent and stormwater outlets:

- Process Water Effluent Outlets:
  - 001
  - 002
  - 003
  - 005
  - 006
  - 007
- Stormwater Outlets
  - 011
  - 016
  - 022
  - 023
  - 025
  - 030
  - 031
  - 032
  - 033
  - 034
  - 036

Stormwater Outlet 019 was proposed for sampling. A total of 1.05 inches of precipitation fell on the day of the sampling. However, Outlet 019 was not flowing, and no sample could be collected. Figure 1 (attached) show the location of the outlets sampled, as well as Outlet 019.

Analytical Methods

As described in the Sampling Plan, outlet samples were to be analyzed via four methods:

- Draft EPA Method 1621 (for absorbable organic fluorine)
- Draft EPA Method 1633
- TOP assay referencing E.F. Houtz, D.L. Sedlak *Oxidative conversion as a means of detecting precursors to perfluoroalkyl acids in urban runoff* Environ. Sci. Technol., 46 (2012), pp. 9342-934 and the actual analysis for PFAS (before and after TOP procedure) 537 Modified)
- NTA to be conducted as described in the *Non-Targeted Analysis (NTA) Procedure and Validation* developed by contract laboratory Eurofins Lancaster Laboratories (located in Lancaster, Pennsylvania) and approved by EPA in the fall of 2023.

Analytical Results

To date, results for analytical methods except the NTA have been finalized. Table 1 (attached) provides these analytical results. As stated above, a final report will be issued once the NTA results are finalized and will include the field notes, the complete set of analytical results and the laboratory reports.

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	EQBLK	FBLK	OUTLET 001	OUTLET 002	OUTLET 003
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	EB	FB	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
10:2 Fluorotelomer sulfonate	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ
10:2 Fluorotelomer sulfonate	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00068	<0.00071	<0.00071	<0.00070	<0.00072
11Cl-PF3OUdS	N	1633	EPA 1633 Draft	DIL	UG/L					
11Cl-PF3OUdS	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
11Cl-PF3OUdS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
11Cl-PF3OUdS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00042	<0.00045	<0.00045	<0.00044	<0.00045
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00051	<0.00053	<0.00053	<0.00053	<0.00054
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00042	<0.00045	<0.00045	<0.00044	<0.00045
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0044	<0.0045	<0.0045	<0.0044	<0.0044
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034	<0.00036	<0.00036	<0.00035	<0.00036
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0044	<0.0045	<0.0045	<0.0044	<0.0044
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034	<0.00036	<0.00036	<0.00035	<0.00036
3:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
5:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0089	<0.0090	<0.0089	<0.0089	<0.0089
6:2 Fluorotelomer sulfonate	N	1633	EPA 1633 Draft	DIL	UG/L					
6:2 Fluorotelomer sulfonate	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022
6:2 Fluorotelomer sulfonate	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
6:2 Fluorotelomer sulfonate	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00042	<0.00045	**0.00067 J**	**0.0019**	**0.0014 J**
7:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0089	<0.0090	<0.0089	<0.0089	<0.0089
9Cl-PF3ONS	N	1633	EPA 1633 Draft	DIL	UG/L					
9Cl-PF3ONS	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00089	<0.00090	<0.00089	<0.00089	<0.00089
9Cl-PF3ONS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
9Cl-PF3ONS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00042	<0.00045	<0.00045	<0.00044	<0.00045
Adsorbable Organic Fluorine (AOF)	N	1621 Prep	Draft Method 1621	PLUG1	UG/L	<0.99 UJ	<1.0 UJ	**6.4 J**	**28 J**	**11 J**
Adsorbable Organic Fluorine (AOF)	N	1621 Prep	Draft Method 1621	PLUG2	UG/L	<0.99 UJ	<1.0 UJ	**2.2 J**	**2.4 J**	**1.8 J**
Adsorbable Organic Fluorine (AOF)	N	NS	Draft Method 1621	SUM	UG/L	<0.99	<1.0	**8.6**	**30**	**12**
DONA	N	1633	EPA 1633 Draft	DIL	UG/L					
DONA	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
DONA	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
DONA	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00042	<0.00045	<0.00045	<0.00044	<0.00045
Fluoride	N	NS	300.0 Rev. 2.1	INIT	MG/L	<0.090	<0.090	<0.45	**1.1 J**	<0.45
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	DIL	UG/L			**5.7**	**12**	
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	DIL2	UG/L					
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0018	<0.0018			**2.2**
Hfpo Dimer Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	DIL	UG/L			**3.5 J**	**10 J**	
Hfpo Dimer Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	**0.0034 J**			**1.5 J**
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L			**6.4**		**3**
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL2	UG/L				**17**	
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034	<0.00036			

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	EQBLK	FBLK	OUTLET 001	OUTLET 002	OUTLET 003
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	EB	FB	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	DIL	UG/L			<0.0063	<0.0062	
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00062	<0.00063			<0.00062
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00042	<0.00045	<0.00045	<0.00044	<0.00045
N-ethylperfluoro-1-octanesulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	<0.00045	<0.00044	<0.00044
N-ethylperfluoro-1-octanesulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
N-ethylperfluoro-1-octanesulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034	<0.00036	<0.00036	<0.00035	<0.00036
N-methyl perfluoro-1-octanesulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	<0.00045	<0.00044	<0.00044
N-methyl perfluoro-1-octanesulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0035 UJ	<0.0035 UJ	<0.0035 UJ	<0.0035 UJ	<0.0035 UJ
N-methyl perfluoro-1-octanesulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00059	<0.00062	<0.00062	<0.00062	<0.00063
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034	<0.00036	<0.00036	<0.00035	<0.00036
Perfluoro(2-ethoxyethane)sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	<0.00045	<0.00044	<0.00044
Perfluorobutane Sulfonic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorobutane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00027	<0.00027	**0.0012 J**	**0.0031**	**0.00089 J**
Perfluorobutane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.0016 J**	**0.0028 J**	<0.0015 UJ
Perfluorobutane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	**0.0012 J**	**0.0027**	**0.00090 J**
Perfluorobutanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0018	<0.0018	**0.025**	**0.31**	**0.029**
Perfluorobutanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	<0.0050 UJ	<0.0050 UJ	**0.021 J**	**0.27 J**	**0.029 J**
Perfluorobutanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	<0.00084	<0.00089	**0.023**	**0.24 J**	**0.029**
Perfluorobutanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0 J**	**0**	**0.031**	**0.00077**
Perfluorobutanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0050 UJ	<0.0050 UJ	**0.021 J**	**0.27 J**	**0.029 J**
Perfluorobutanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00084	<0.00089	**0.023**	**0.24**	**0.029**
Perfluorodecane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	<0.00045	<0.00044	<0.00044
Perfluorodecane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorodecane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	<0.00027	<0.00026	<0.00027
Perfluorodecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorodecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	**0.027**	**0.014**	**0.027**
Perfluorodecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.024 J**	**0.021 J**	**0.024 J**
Perfluorodecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluorodecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	**0.027**	**0.019**	**0.021**
Perfluorododecane Sulfonic Acid (PFDoS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00080	<0.00081	<0.00080	<0.00080	<0.00080
Perfluorododecane Sulfonic Acid (PFDoS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorododecane Sulfonic Acid (PFDoS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	<0.00027	<0.00026	<0.00027
Perfluorododecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	**0.019**	**0.0087**	**0.016**
Perfluorododecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	**0.013 J**	**0.015 J**	**0.0088 J**
Perfluorododecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034	<0.00036	**0.0010 J**	**0.0089**	**0.0067**
Perfluoroheptane Sulfonic Acid (PFHpS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00036	<0.00036	<0.00036	<0.00036	<0.00035
Perfluoroheptane Sulfonic Acid (PFHpS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluoroheptane Sulfonic Acid (PFHpS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	<0.00027	<0.00026	<0.00027
Perfluoroheptanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00046	<0.00047	**0.027**	**0.077**	**0.053**
Perfluoroheptanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.023 J**	**0.058 J**	**0.047 J**
Perfluoroheptanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	<0.00025	<0.00027	**0.023**	**0.063 J**	**0.047**
Perfluoroheptanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0 J**	**0.000019**	**0**	**0**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	EQBLK	FBLK	OUTLET 001	OUTLET 002	OUTLET 003
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	EB	FB	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
Perfluoroheptanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.023 J**	**0.058 J**	**0.047 J**
Perfluoroheptanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluoroheptanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	**0.023**	**0.063**	**0.047**
Perfluorohexadecanoic Acid (PFHxDA)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorohexadecanoic Acid (PFHxDA)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00042	<0.00045	**0.0020**	**0.0025**	**0.0022**
Perfluorohexane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00051	<0.00051	**0.0064**	**0.0032**	**0.0010 J**
Perfluorohexane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0010 UJ	<0.0010 UJ	**0.0049 J**	**0.0028 J**	<0.0010 UJ
Perfluorohexane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00017	<0.00018	**0.0051**	**0.0030**	**0.00090 J**
Perfluorohexanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorohexanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	**0.056**	**0.11**	**0.039**
Perfluorohexanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	<0.0050 UJ	<0.0050 UJ	**0.049 J**	**0.081 J**	**0.033 J**
Perfluorohexanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	<0.00084	<0.00089	**0.051**	**0.091 J**	**0.037**
Perfluorohexanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0 J**	**0**	**0**	**0**
Perfluorohexanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0050 UJ	<0.0050 UJ	**0.049 J**	**0.081 J**	**0.033 J**
Perfluorohexanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluorohexanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00084	<0.00089	**0.051**	**0.091**	**0.037**
Perfluorononanesulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00036	<0.00036	<0.00036	<0.00036	<0.00035
Perfluorononanesulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorononanesulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	<0.00027	<0.00026	<0.00027
Perfluorononanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorononanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	**0.026**	**0.051**	**0.06**
Perfluorononanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	<0.0010 UJ	<0.0010 UJ	**0.023 J**	**0.039 J**	**0.049 J**
Perfluorononanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	<0.00017	<0.00018	**0.02**	**0.037 J**	**0.047**
Perfluorononanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0 J**	**0.0029**	**0.0021**	**0.0023**
Perfluorononanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0010 UJ	<0.0010 UJ	**0.023 J**	**0.039 J**	**0.049 J**
Perfluorononanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluorononanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00017	<0.00018	**0.02**	**0.037**	**0.047**
Perfluorooctadecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
Perfluorooctadecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00042	<0.00045	**0.0011 J**	**0.0015 J**	**0.0016 J**
Perfluorooctane Sulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	<0.00045	<0.00044	<0.00044
Perfluorooctane Sulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	**0.0018 J**	<0.0015 UJ
Perfluorooctane Sulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	**0.00054 J**	**0.00060 J**	**0.00074 J**
Perfluoropentane Sulfonic Acid (PFPeS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	**0.00095 J**	**0.00059 J**	<0.00044
Perfluoropentane Sulfonic Acid (PFPeS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluoropentane Sulfonic Acid (PFPeS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	**0.00059 J**	**0.00042 J**	<0.00027
Perfluoropentanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00089	<0.00090	**0.028 J**	**0.071**	**0.042**
Perfluoropentanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.023 J**	**0.05 J**	**0.036 J**
Perfluoropentanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	<0.00025	<0.00027	**0.024**	**0.056 J**	**0.037**
Perfluoropentanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0 J**	**0**	**0**	**0**
Perfluoropentanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.023 J**	**0.05 J**	**0.036 J**
Perfluoropentanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluoropentanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	**0.024**	**0.056**	**0.037**
Perfluorotetradecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	**0.0083**	**0.0032**	**0.0041**
Perfluorotetradecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	**0.0023 J**
Perfluorotetradecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034	<0.00036	**0.0041**	**0.0047**	**0.0049**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	EQBLK	FBLK	OUTLET 001	OUTLET 002	OUTLET 003
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	EB	FB	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
Perfluorotridecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorotridecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	**0.021**	**0.011**	**0.015**
Perfluorotridecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	**0.0066 J**	**0.011 J**	**0.0085 J**
Perfluorotridecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034	<0.00036	**0.0094**	**0.011**	**0.0099**
Perfluoroundecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluoroundecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	**0.038**	**0.023**	**0.047**
Perfluoroundecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.038 J**	**0.039 J**	**0.034 J**
Perfluoroundecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluoroundecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	**0.039**	**0.028**	**0.026**
PFECA B	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00089	<0.00090	<0.00089	<0.00089	<0.00089
PFECA-A	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00089	<0.00090	<0.00089	<0.00089	<0.00089
PFECA-F	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	<0.00045	**0.019**	**0.00073 J**
PFOA	N	1633	EPA 1633 Draft	DIL	UG/L				**1.2**	
PFOA	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00057	<0.00057	**0.43**		**0.29**
PFOA	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.25 J**	**0.82 J**	**0.23 J**
PFOA	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	<0.00025	<0.00027	**0.32**	**1 J**	**0.27**
PFOA	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0 J**	**0**	**0**	**0**
PFOA	N	TOPS_Post_Prep	T-PFAS-WI18548	DIL	UG/L					
PFOA	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.25 J**	**0.82 J**	**0.23 J**
PFOA	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L				**1**	
PFOA	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00025	<0.00027	**0.32**		**0.27**
PFOS	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00045	**0.016**	**0.0031**	**0.0023**
PFOS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	**0.014 J**	**0.0040 J**	<0.0025 UJ
PFOS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00042	<0.00045	**0.014**	**0.0029**	**0.0019**
Total PFCA	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	<0.00020 UJ	<0.00020 UJ	**0.39 J**	**1.3 J**	**0.42 J**
Total PFCA	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	<0.00020	<0.00020	**0.46 J**	**1.5 J**	**0.47 J**
Total PFCA	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0 J**	**0**	**0**	**0**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 005	OUTLET 005	OUTLET 006	OUTLET 007	OUTLET 011
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	DUP	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
10:2 Fluorotelomer sulfonate	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ
10:2 Fluorotelomer sulfonate	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00072	<0.00071	<0.00073	**0.0078 J**	<0.00073 UJ
11Cl-PF3OUdS	N	1633	EPA 1633 Draft	DIL	UG/L					
11Cl-PF3OUdS	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0018	<0.0020	<0.0019	<0.0018	<0.0020
11Cl-PF3OUdS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
11Cl-PF3OUdS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.00044	<0.00045	<0.00044	<0.00045 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0023	<0.0026	<0.0024	**0.0046 J**	<0.0026
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00054	<0.00053	<0.00055	**0.0037 J**	<0.00054 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0015	<0.0017	<0.0016	<0.0015	<0.0017
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.00044	<0.00045	<0.00044	<0.00045 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0045	<0.0049	<0.0047	<0.0045	<0.0050
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00036	<0.00035	<0.00036	<0.00035	<0.00036 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0045	<0.0049	<0.0047	<0.0045	<0.0050
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00036	<0.00035	<0.00036	<0.00035	<0.00036 UJ
3:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0014	<0.0015	<0.0014	<0.0013	<0.0015
5:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0090	<0.0098	<0.0093	<0.0090	<0.01
6:2 Fluorotelomer sulfonate	N	1633	EPA 1633 Draft	DIL	UG/L					
6:2 Fluorotelomer sulfonate	N	1633	EPA 1633 Draft	INIT	UG/L	**0.0023 J**	<0.0025	<0.0023	**0.0071 J**	<0.0025
6:2 Fluorotelomer sulfonate	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
6:2 Fluorotelomer sulfonate	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0024**	**0.0025**	<0.00045	**0.0076 J**	<0.00045 UJ
7:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0090	<0.0098	<0.0093	<0.0090	<0.01
9Cl-PF3ONS	N	1633	EPA 1633 Draft	DIL	UG/L					
9Cl-PF3ONS	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00090	<0.00098	<0.00093	<0.00090	<0.0010
9Cl-PF3ONS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
9Cl-PF3ONS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.00044	<0.00045	<0.00044	<0.00045 UJ
Adsorbable Organic Fluorine (AOF)	N	1621 Prep	Draft Method 1621	PLUG1	UG/L	**8.5 J**	**10 J**	**2.6 J**	**18 J**	**1.4 J**
Adsorbable Organic Fluorine (AOF)	N	1621 Prep	Draft Method 1621	PLUG2	UG/L	**1.5 J**	**1.2 J**	**1.5 J**	**4.2 J**	<0.99 UJ
Adsorbable Organic Fluorine (AOF)	N	NS	Draft Method 1621	SUM	UG/L	**10 J**	**11 J**	**4.1**	**22**	**1.4 J**
DONA	N	1633	EPA 1633 Draft	DIL	UG/L					
DONA	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0014	<0.0015	<0.0014	<0.0013	<0.0015
DONA	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
DONA	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.00044	<0.00045	<0.00044	<0.00045 UJ
Fluoride	N	NS	300.0 Rev. 2.1	INIT	MG/L	<0.45	<0.45	<0.45	<0.45	<0.45
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	DIL	UG/L	**2.9**	**2.9**	**1.4**		**0.54**
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	DIL2	UG/L				**9.8**	
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	INIT	UG/L					
Hfpo Dimer Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	DIL	UG/L				**7.3 J**	
Hfpo Dimer Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**1.8 J**	**1.7 J**	**0.81 J**		**0.37 J**
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L		**3.5**	**1.7**		**0.65**
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL2	UG/L	**3.9**			**14**	
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L					

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 005	OUTLET 005	OUTLET 006	OUTLET 007	OUTLET 011
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	DUP	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00063	<0.00069	<0.00065	<0.00063	<0.00070
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.00044	<0.00045	<0.00044	<0.00045 UJ
N-ethylperfluoro-1-octanesulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00045	<0.00049	<0.00047	<0.00045	<0.00050
N-ethylperfluoro-1-octanesulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
N-ethylperfluoro-1-octanesulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00036	<0.00035	<0.00036	<0.00035	<0.00036 UJ
N-methyl perfluoro-1-octanesulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00045	<0.00049	<0.00047	<0.00045	<0.00050
N-methyl perfluoro-1-octanesulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0035 UJ	<0.0035 UJ	<0.0035 UJ	<0.0035 UJ	<0.0035 UJ
N-methyl perfluoro-1-octanesulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00063	<0.00062	<0.00064	<0.00061	<0.00064 UJ
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0011	<0.0012	<0.0011	<0.0011	<0.0012
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00036	<0.00035	<0.00036	<0.00035	<0.00036 UJ
Perfluoro(2-ethoxyethane)sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00045	<0.00049	<0.00047	<0.00045	<0.00050
Perfluorobutane Sulfonic Acid	N	1633	EPA 1633 Draft	DIL	UG/L				<0.0027	
Perfluorobutane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.00071 J**	**0.0010 J**	**0.00074 J**		**0.0019 J**
Perfluorobutane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	**0.0024 J**
Perfluorobutane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0010 J**	**0.0011 J**	**0.00098 J**	**0.0011 J**	**0.0022 J**
Perfluorobutanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.067**	**0.069**	**0.019**	**0.14**	**0.011**
Perfluorobutanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.07 J**	**0.069 J**	**0.023 J**	**0.14 J**	**0.014 J**
Perfluorobutanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.073 J**	**0.071 J**	**0.021**	**0.15 J**	**0.012**
Perfluorobutanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0.0019**	**0**	**0.0018**
Perfluorobutanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.07 J**	**0.069 J**	**0.023 J**	**0.14 J**	**0.014 J**
Perfluorobutanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.073**	**0.071 J**	**0.021 J**	**0.15 J**	**0.012 J**
Perfluorodecane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00045	<0.00049	<0.00047	<0.00045	<0.00050
Perfluorodecane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorodecane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.00027	<0.00027	<0.00026	<0.00027 UJ
Perfluorodecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L				**0.61**	
Perfluorodecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.016**	**0.016**	**0.018**		**0.0056**
Perfluorodecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.018 J**	**0.019 J**	**0.015 J**	**0.45 J**	**0.0068 J**
Perfluorodecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L				**0.6**	
Perfluorodecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.019**	**0.019**	**0.017 J**		**0.0067 J**
Perfluorododecane Sulfonic Acid (PFDoS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00081	<0.00088	<0.00084	<0.00081	<0.00090
Perfluorododecane Sulfonic Acid (PFDoS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorododecane Sulfonic Acid (PFDoS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.00027	<0.00027	<0.00026	<0.00027 UJ
Perfluorododecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.015**	**0.015**	**0.015**	**0.26**	**0.0016 J**
Perfluorododecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.013 J**	**0.013 J**	**0.017 J**	**0.22 J**	<0.0020 UJ
Perfluorododecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.017**	**0.016**	**0.014 J**	**0.22 J**	**0.0020 J**
Perfluoroheptane Sulfonic Acid (PFHpS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00036	<0.00039	<0.00037	<0.00036	<0.00040
Perfluoroheptane Sulfonic Acid (PFHpS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluoroheptane Sulfonic Acid (PFHpS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.00027	<0.00027	<0.00026	<0.00027 UJ
Perfluoroheptanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.039**	**0.038**	**0.026**	**0.46**	**0.0074**
Perfluoroheptanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.04 J**	**0.04 J**	**0.026 J**	**0.37 J**	**0.0077 J**
Perfluoroheptanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.044 J**	**0.045 J**	**0.028**	**0.45 J**	**0.0080**
Perfluoroheptanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 005	OUTLET 005	OUTLET 006	OUTLET 007	OUTLET 011
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	DUP	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
Perfluoroheptanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.04 J**	**0.04 J**	**0.026 J**	**0.37 J**	**0.0077 J**
Perfluoroheptanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L				**0.45**	
Perfluoroheptanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.044**	**0.045**	**0.028 J**		**0.0080 J**
Perfluorohexadecanoic Acid (PFHxDA)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	**0.0067 J**	<0.0015 UJ
Perfluorohexadecanoic Acid (PFHxDA)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0055**	**0.0045**	**0.0026 J**	**0.036 J**	<0.00045 UJ
Perfluorohexane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.0021**	**0.0020**	**0.0033**	**0.0017 J**	**0.0020**
Perfluorohexane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0019 J**	**0.0018 J**	**0.0031 J**	**0.0017 J**	**0.0020 J**
Perfluorohexane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0020**	**0.0021**	**0.0034 J**	**0.0019 J**	**0.0024 J**
Perfluorohexanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L				**1.3**	
Perfluorohexanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.15**	**0.14**	**0.051**		**0.013**
Perfluorohexanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.11 J**	**0.11 J**	**0.038 J**	**0.94 J**	**0.012 J**
Perfluorohexanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.14 J**	**0.13 J**	**0.043**	**1.1 J**	**0.013**
Perfluorohexanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**
Perfluorohexanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.11 J**	**0.11 J**	**0.038 J**	**0.94 J**	**0.012 J**
Perfluorohexanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L				**1.1**	
Perfluorohexanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.14**	**0.13**	**0.043 J**		**0.013 J**
Perfluorononanesulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00036	<0.00039	<0.00037	<0.00036	<0.00040
Perfluorononanesulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorononanesulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.00027	<0.00027	<0.00026	<0.00027 UJ
Perfluorononanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L				**1.1**	
Perfluorononanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.028**	**0.031**	**0.031**		**0.0057**
Perfluorononanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.026 J**	**0.024 J**	**0.025 J**	**0.62 J**	**0.0049 J**
Perfluorononanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.024 J**	**0.025 J**	**0.024**	**0.8 J**	**0.0040**
Perfluorononanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0.0020 J**	**0 J**	**0.0010**	**0**	**0.00082**
Perfluorononanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.026 J**	**0.024 J**	**0.025 J**	**0.62 J**	**0.0049 J**
Perfluorononanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L				**0.8**	
Perfluorononanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.024**	**0.025**	**0.024 J**		**0.0040 J**
Perfluorooctadecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	**0.0051 J**	<0.0025 UJ
Perfluorooctadecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0025**	**0.0021**	**0.0012 J**	**0.02 J**	<0.00045 UJ
Perfluorooctane Sulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00045	<0.00049	<0.00047	<0.00045	<0.00050
Perfluorooctane Sulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	**0.0015 J**	**0.0030 J**	**0.0024 J**
Perfluorooctane Sulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.00044 J**	**0.00037 J**	**0.00038 J**	**0.00028 J**	**0.00031 J**
Perfluoropentane Sulfonic Acid (PFPeS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00045	<0.00049	<0.00047	<0.00045	<0.00050
Perfluoropentane Sulfonic Acid (PFPeS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluoropentane Sulfonic Acid (PFPeS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.00027	**0.00030 J**	<0.00026	**0.00032 J**
Perfluoropentanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.027**	**0.028**	**0.029**	**0.23**	**0.0075**
Perfluoropentanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.035 J**	**0.036 J**	**0.028 J**	**0.21 J**	**0.0087 J**
Perfluoropentanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.037 J**	**0.036 J**	**0.031**	**0.24 J**	**0.0081**
Perfluoropentanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0.00058**
Perfluoropentanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.035 J**	**0.036 J**	**0.028 J**	**0.21 J**	**0.0087 J**
Perfluoropentanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluoropentanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.037**	**0.036 J**	**0.031 J**	**0.24 J**	**0.0081 J**
Perfluorotetradecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.014**	**0.012**	**0.0058**	**0.058**	<0.00050
Perfluorotetradecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0042 J**	**0.0032 J**	**0.0029 J**	**0.022 J**	<0.0020 UJ
Perfluorotetradecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.012**	**0.01**	**0.0047 J**	**0.062 J**	**0.00072 J**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 005	OUTLET 005	OUTLET 006	OUTLET 007	OUTLET 011
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	DUP	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
Perfluorotridecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L				**0.14**	
Perfluorotridecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.036**	**0.038**	**0.025**		**0.0011 J**
Perfluorotridecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.018 J**	**0.02 J**	**0.016 J**	**0.097 J**	<0.0020 UJ
Perfluorotridecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.033**	**0.035**	**0.016 J**	**0.15 J**	**0.0012 J**
Perfluoroundecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L				**0.64**	
Perfluoroundecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.018**	**0.02**	**0.027**		**0.0024**
Perfluoroundecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.021 J**	**0.024 J**	**0.033 J**	**0.61 J**	**0.0039 J**
Perfluoroundecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L				**0.57**	
Perfluoroundecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.023**	**0.023 J**	**0.031 J**		**0.0029 J**
PFECA B	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00090	<0.00098	<0.00093	<0.00090	<0.0010
PFECA-A	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00090	<0.00098	<0.00093	**0.0015 J**	<0.0010
PFECA-F	N	1633	EPA 1633 Draft	INIT	UG/L	**0.00078 J**	**0.00082 J**	**0.00053 J**	**0.0044**	<0.00050
PFOA	N	1633	EPA 1633 Draft	DIL	UG/L				**1.2**	
PFOA	N	1633	EPA 1633 Draft	INIT	UG/L	**0.5**	**0.42**	**0.26**		**0.27**
PFOA	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.31 J**	**0.33 J**	**0.17 J**	**0.8 J**	**0.17 J**
PFOA	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.37 J**	**0.37 J**	**0.21**	**1 J**	**0.2**
PFOA	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**
PFOA	N	TOPS_Post_Prep	T-PFAS-WI18548	DIL	UG/L					
PFOA	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.31 J**	**0.33 J**	**0.17 J**	**0.8 J**	**0.17 J**
PFOA	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L	**0.37**	**0.37**		**1**	
PFOA	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L			**0.21 J**		**0.2 J**
PFOS	N	1633	EPA 1633 Draft	INIT	UG/L	**0.0014 J**	**0.0014 J**	**0.0061**	**0.0016 J**	**0.0062**
PFOS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	**0.0065 J**	<0.0025 UJ	**0.0062 J**
PFOS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0015 J**	**0.0015 J**	**0.0081 J**	**0.0041 J**	**0.0068 J**
Total PFCA	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.59 J**	**0.61 J**	**0.31 J**	**3.1 J**	**0.22 J**
Total PFCA	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.69 J**	**0.68 J**	**0.36 J**	**3.7 J**	**0.25 J**
Total PFCA	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 016	OUTLET 022	OUTLET 023	OUTLET 025	OUTLET 030
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	FS	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
10:2 Fluorotelomer sulfonate	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ
10:2 Fluorotelomer sulfonate	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00068 UJ	<0.00073	<0.00074	<0.00073	<0.00074
11Cl-PF3OUdS	N	1633	EPA 1633 Draft	DIL	UG/L					
11Cl-PF3OUdS	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0018	<0.0019	<0.0019	<0.0020	<0.0018
11Cl-PF3OUdS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
11Cl-PF3OUdS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00043 UJ	<0.00045	<0.00046	<0.00046	<0.00046
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0023	<0.0024	<0.0024	<0.0025	<0.0024
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00051 UJ	<0.00055	<0.00056	<0.00055	<0.00055
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0015	<0.0016	<0.0016	<0.0017	<0.0015
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00043 UJ	<0.00045	<0.00046	<0.00046	<0.00046
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0044	<0.0047	<0.0047	<0.0049	<0.0046
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034 UJ	<0.00036	<0.00037	<0.00037	<0.00037
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0044	<0.0047	<0.0047	<0.0049	<0.0046
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034 UJ	<0.00036	<0.00037	<0.00037	<0.00037
3:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0013	<0.0014	<0.0014	<0.0015	<0.0014
5:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0088	<0.0093	<0.0094	<0.0098	<0.0091
6:2 Fluorotelomer sulfonate	N	1633	EPA 1633 Draft	DIL	UG/L	<0.022				
6:2 Fluorotelomer sulfonate	N	1633	EPA 1633 Draft	INIT	UG/L		<0.0023	<0.0024	<0.0024	<0.0023
6:2 Fluorotelomer sulfonate	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
6:2 Fluorotelomer sulfonate	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00043 UJ	<0.00045	<0.00046	<0.00046	<0.00046
7:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0088	<0.0093	<0.0094	<0.0098	<0.0091
9Cl-PF3ONS	N	1633	EPA 1633 Draft	DIL	UG/L					
9Cl-PF3ONS	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00088	<0.00093	<0.00094	<0.00098	<0.00091
9Cl-PF3ONS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
9Cl-PF3ONS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00043 UJ	<0.00045	<0.00046	<0.00046	<0.00046
Adsorbable Organic Fluorine (AOF)	N	1621 Prep	Draft Method 1621	PLUG1	UG/L	**4.5 J**	**1.7 J**	**1.5 J**	**3.0 J**	**4.1 J**
Adsorbable Organic Fluorine (AOF)	N	1621 Prep	Draft Method 1621	PLUG2	UG/L	**2.7 J**	**1.6 J**	**1.3 J**	**2.1 J**	**2.1 J**
Adsorbable Organic Fluorine (AOF)	N	NS	Draft Method 1621	SUM	UG/L	**7.3**	**3.2**	**2.7**	**5.1**	**6.3**
DONA	N	1633	EPA 1633 Draft	DIL	UG/L					
DONA	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0013	<0.0014	<0.0014	<0.0015	<0.0014
DONA	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
DONA	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00043 UJ	<0.00045	<0.00046	<0.00046	<0.00046
Fluoride	N	NS	300.0 Rev. 2.1	INIT	MG/L	<0.45	<0.45	<0.45	<0.45	<0.45
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	DIL	UG/L	**3**	**0.96**			**4**
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	DIL2	UG/L					
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	INIT	UG/L			**0.065**	**0.29**	
Hfpo Dimer Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	DIL	UG/L					**2.5 J**
Hfpo Dimer Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**1.8 J**	**0.53 J**	**0.04 J**	**0.16 J**	
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L		**1**		**0.32**	**4.6**
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL2	UG/L	**3.7**				
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L			**0.078**		

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 016	OUTLET 022	OUTLET 023	OUTLET 025	OUTLET 030
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	FS	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00062	<0.00065	<0.00066	<0.00068	<0.00064
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00043 UJ	<0.00045	<0.00046	<0.00046	<0.00046
N-ethylperfluoro-1-octanesulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00047	<0.00047	<0.00049	<0.00046
N-ethylperfluoro-1-octanesulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
N-ethylperfluoro-1-octanesulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034 UJ	<0.00036	<0.00037	<0.00037	<0.00037
N-methyl perfluoro-1-octanesulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00047	<0.00047	<0.00049	<0.00046
N-methyl perfluoro-1-octanesulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0035 UJ	<0.0035 UJ	<0.0035 UJ	<0.0035 UJ	<0.0035 UJ
N-methyl perfluoro-1-octanesulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00060 UJ	<0.00064	<0.00065	<0.00064	<0.00065
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0011	<0.0011	<0.0011	<0.0012	<0.0011
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00034 UJ	<0.00036	<0.00037	<0.00037	<0.00037
Perfluoro(2-ethoxyethane)sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00047	<0.00047	<0.00049	<0.00046
Perfluorobutane Sulfonic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorobutane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.00039 J**	<0.00028	<0.00028	<0.00029	**0.00078 J**
Perfluorobutane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorobutane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.00051 J**	<0.00027	<0.00028	<0.00027	**0.0012 J**
Perfluorobutanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.15**	**0.02**	**0.0025 J**	**0.0049 J**	**0.052**
Perfluorobutanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.15 J**	**0.025 J**	**0.0066 J**	**0.0056 J**	**0.052 J**
Perfluorobutanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.16 J**	**0.025**	**0.0038**	**0.0054**	**0.058**
Perfluorobutanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0.0029**	**0.00019**	**0**
Perfluorobutanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.15 J**	**0.025 J**	**0.0066 J**	**0.0056 J**	**0.052 J**
Perfluorobutanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.16 J**	**0.025 J**	**0.0038**	**0.0054 J**	**0.058**
Perfluorodecane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00047	<0.00047	<0.00049	<0.00046
Perfluorodecane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorodecane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00026 UJ	<0.00027	<0.00028	<0.00027	<0.00028
Perfluorodecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L	**0.13**				
Perfluorodecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L		**0.019**	**0.0011 J**	**0.0048**	**0.035**
Perfluorodecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.13 J**	**0.014 J**	**0.0015 J**	**0.0047 J**	**0.025 J**
Perfluorodecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluorodecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.15 J**	**0.017 J**	**0.0014 J**	**0.0046 J**	**0.029**
Perfluorododecane Sulfonic Acid (PFDoS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00079	<0.00084	<0.00085	<0.00088	<0.00082
Perfluorododecane Sulfonic Acid (PFDoS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorododecane Sulfonic Acid (PFDoS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00026 UJ	<0.00027	<0.00028	<0.00027	<0.00028
Perfluorododecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.092**	**0.0097**	**0.00092 J**	**0.0074**	**0.0093**
Perfluorododecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.05 J**	**0.0082 J**	<0.0020 UJ	**0.0035 J**	**0.0036 J**
Perfluorododecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.082 J**	**0.011 J**	**0.0012 J**	**0.0039 J**	**0.0085**
Perfluoroheptane Sulfonic Acid (PFHpS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00035	<0.00037	<0.00038	<0.00039	**0.00082 J**
Perfluoroheptane Sulfonic Acid (PFHpS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluoroheptane Sulfonic Acid (PFHpS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00026 UJ	<0.00027	<0.00028	<0.00027	**0.00064 J**
Perfluoroheptanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.11**	**0.019**	**0.0016 J**	**0.0062**	**0.092**
Perfluoroheptanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.1 J**	**0.017 J**	**0.0036 J**	**0.0070 J**	**0.08 J**
Perfluoroheptanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.11 J**	**0.018**	**0.0019**	**0.0068**	**0.093**
Perfluoroheptanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0.0017**	**0.00021**	**0**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 016	OUTLET 022	OUTLET 023	OUTLET 025	OUTLET 030
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	FS	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
Perfluoroheptanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.1 J**	**0.017 J**	**0.0036 J**	**0.0070 J**	**0.08 J**
Perfluoroheptanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluoroheptanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.11 J**	**0.018 J**	**0.0019**	**0.0068 J**	**0.093**
Perfluorohexadecanoic Acid (PFHxDA)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0047 J**	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	**0.0025 J**
Perfluorohexadecanoic Acid (PFHxDA)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0050 J**	**0.0021 J**	<0.00046	**0.0013 J**	**0.0038**
Perfluorohexane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.00076 J**	**0.00053 J**	<0.00054	<0.00056	**0.015**
Perfluorohexane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	<0.0010 UJ	**0.014 J**
Perfluorohexane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.00079 J**	<0.00018	**0.00029 J**	**0.00030 J**	**0.016**
Perfluorohexanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L	**0.48**				
Perfluorohexanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L		**0.041**	**0.0023**	**0.0067**	**0.091**
Perfluorohexanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.43 J**	**0.028 J**	<0.0050 UJ	**0.0051 J**	**0.05 J**
Perfluorohexanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.49 J**	**0.037**	**0.0026**	**0.0062**	**0.074**
Perfluorohexanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**
Perfluorohexanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.43 J**	**0.028 J**	<0.0050 UJ	**0.0051 J**	**0.05 J**
Perfluorohexanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L	**0.49**				
Perfluorohexanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L		**0.037 J**	**0.0026**	**0.0062 J**	**0.074**
Perfluorononanesulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00035	<0.00037	<0.00038	<0.00039	<0.00036
Perfluorononanesulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluorononanesulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00026 UJ	<0.00027	<0.00028	<0.00027	<0.00028
Perfluorononanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorononanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.17**	**0.025**	**0.0024**	**0.0092**	**0.097**
Perfluorononanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.13 J**	**0.02 J**	**0.0024 J**	**0.0070 J**	**0.072 J**
Perfluorononanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.13 J**	**0.019**	**0.0016 J**	**0.0072**	**0.076**
Perfluorononanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0.00097**	**0.00077**	**0**	**0**
Perfluorononanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.13 J**	**0.02 J**	**0.0024 J**	**0.0070 J**	**0.072 J**
Perfluorononanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluorononanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.13 J**	**0.019 J**	**0.0016 J**	**0.0072 J**	**0.076**
Perfluorooctadecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0035 J**	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ
Perfluorooctadecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0018 J**	**0.0015 J**	<0.00046	**0.00061 J**	**0.0022**
Perfluorooctane Sulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00047	<0.00047	<0.00049	**0.0021**
Perfluorooctane Sulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	**0.0023 J**	<0.0015 UJ	<0.0015 UJ	**0.0020 J**
Perfluorooctane Sulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00026 UJ	**0.00033 J**	**0.00029 J**	**0.00031 J**	**0.00049 J**
Perfluoropentane Sulfonic Acid (PFPeS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00044	<0.00047	<0.00047	<0.00049	**0.0010 J**
Perfluoropentane Sulfonic Acid (PFPeS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ	<0.0015 UJ
Perfluoropentane Sulfonic Acid (PFPeS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00026 UJ	<0.00027	<0.00028	<0.00027	**0.00096 J**
Perfluoropentanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.45**	**0.017**	**0.0021 J**	**0.0058**	**0.079**
Perfluoropentanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.43 J**	**0.018 J**	**0.0042 J**	**0.0063 J**	**0.069 J**
Perfluoropentanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.47 J**	**0.018**	**0.0028**	**0.0059**	**0.078**
Perfluoropentanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0.00015**	**0.0015**	**0.00040**	**0**
Perfluoropentanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.43 J**	**0.018 J**	**0.0042 J**	**0.0063 J**	**0.069 J**
Perfluoropentanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L	**0.47**				
Perfluoropentanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L		**0.018 J**	**0.0028**	**0.0059 J**	**0.078**
Perfluorotetradecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.029**	**0.0032**	**0.00051 J**	**0.0033**	**0.0065**
Perfluorotetradecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0068 J**	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ
Perfluorotetradecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.019 J**	**0.0032 J**	**0.00083 J**	**0.0020 J**	**0.0055**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 016	OUTLET 022	OUTLET 023	OUTLET 025	OUTLET 030
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	FS	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
Perfluorotridecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L	**0.16**				
Perfluorotridecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L		**0.013**	**0.0019**	**0.011**	**0.018**
Perfluorotridecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.035 J**	**0.0056 J**	<0.0020 UJ	**0.0034 J**	**0.0044 J**
Perfluorotridecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.086 J**	**0.01 J**	**0.0018 J**	**0.0036 J**	**0.01**
Perfluoroundecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluoroundecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.13**	**0.029**	**0.0017 J**	**0.0082**	**0.034**
Perfluoroundecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.089 J**	**0.025 J**	**0.0021 J**	**0.0068 J**	**0.028 J**
Perfluoroundecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluoroundecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.11 J**	**0.03 J**	**0.0021**	**0.0073 J**	**0.035**
PFECA B	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00088	<0.00093	<0.00094	<0.00098	<0.00091
PFECA-A	N	1633	EPA 1633 Draft	INIT	UG/L	**0.015**	<0.00093	<0.00094	<0.00098	**0.0019 J**
PFECA-F	N	1633	EPA 1633 Draft	INIT	UG/L	**0.014**	<0.00047	<0.00047	<0.00049	**0.0017 J**
PFOA	N	1633	EPA 1633 Draft	DIL	UG/L	**0.52**				
PFOA	N	1633	EPA 1633 Draft	INIT	UG/L		**0.1**	**0.013**	**0.095**	**0.21**
PFOA	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.38 J**	**0.059 J**	**0.011 J**	**0.05 J**	**0.13 J**
PFOA	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.49 J**	**0.076**	**0.011**	**0.062**	**0.16**
PFOA	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**
PFOA	N	TOPS_Post_Prep	T-PFAS-WI18548	DIL	UG/L					
PFOA	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.38 J**	**0.059 J**	**0.011 J**	**0.05 J**	**0.13 J**
PFOA	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L	**0.49**				
PFOA	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L		**0.076 J**	**0.011**	**0.062 J**	**0.16**
PFOS	N	1633	EPA 1633 Draft	INIT	UG/L	**0.0014 J**	**0.0013 J**	**0.0013 J**	**0.00087 J**	**0.03**
PFOS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	<0.0025 UJ	**0.031 J**
PFOS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.016 J**	**0.0047 J**	**0.0019**	**0.00096 J**	**0.034**
Total PFCA	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**1.6 J**	**0.17 J**	**0.028 J**	**0.081 J**	**0.45 J**
Total PFCA	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**1.9 J**	**0.19 J**	**0.024 J**	**0.094 J**	**0.54**
Total PFCA	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0.0041**	**0**	**0**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

				Location ID	OUTLET 031	OUTLET 032	OUTLET 033	OUTLET 034	OUTLET 036
				Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
				Sample Purpose	FS	FS	FS	FS	FS
				Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
10:2 Fluorotelomer sulfonate	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0040 UJ	<0.0080 UJ	<0.0080 UJ	<0.0080 UJ	<0.0040 UJ
10:2 Fluorotelomer sulfonate	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00072	<0.0080	<0.0080	<0.0080	<0.00075
11Cl-PF3OUdS	N	1633	EPA 1633 Draft	DIL	UG/L	<0.019				
11Cl-PF3OUdS	N	1633	EPA 1633 Draft	INIT	UG/L		<0.02	<0.02	<0.02	<0.0018
11Cl-PF3OUdS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0050 UJ	<0.0050 UJ	<0.0050 UJ	<0.0025 UJ
11Cl-PF3OUdS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.0050	<0.0050	<0.0050	<0.00047
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0025	<0.026	<0.026	<0.026	<0.0023
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0030 UJ	<0.0060 UJ	<0.0060 UJ	<0.0060 UJ	<0.0030 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00054	<0.0060	<0.0060	<0.0060	<0.00056
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0016	<0.017	<0.017	<0.017	<0.0015
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0050 UJ	<0.0050 UJ	<0.0050 UJ	<0.0025 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.0050	<0.0050	<0.0050	<0.00047
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0048	<0.05	<0.05	<0.05	<0.0044
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0020 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00036	<0.0040	<0.0040	<0.0040	<0.00037
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0048	<0.05	<0.05	<0.05	<0.0044
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0020 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00036	<0.0040	<0.0040	<0.0040	<0.00037
3:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0015	<0.015	<0.015	<0.015	<0.0013
5:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0097	<0.1	<0.1	<0.1	<0.0088
6:2 Fluorotelomer sulfonate	N	1633	EPA 1633 Draft	DIL	UG/L					
6:2 Fluorotelomer sulfonate	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0024	<0.025	<0.025	<0.025	<0.0022
6:2 Fluorotelomer sulfonate	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0050 UJ	<0.0050 UJ	<0.0050 UJ	<0.0025 UJ
6:2 Fluorotelomer sulfonate	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.00094 J**	<0.0050	<0.0050	<0.0050	**0.00078 J**
7:3 Fluorotelomer Carboxylic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0097	<0.1	<0.1	<0.1	<0.0088
9Cl-PF3ONS	N	1633	EPA 1633 Draft	DIL	UG/L	<0.0097				
9Cl-PF3ONS	N	1633	EPA 1633 Draft	INIT	UG/L		<0.01	<0.01	<0.01	<0.00088
9Cl-PF3ONS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0050 UJ	<0.0050 UJ	<0.0050 UJ	<0.0025 UJ
9Cl-PF3ONS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.0050	<0.0050	<0.0050	<0.00047
Adsorbable Organic Fluorine (AOF)	N	1621 Prep	Draft Method 1621	PLUG1	UG/L	**10 J**	**19 J**	**17 J**	**8.1 J**	**2.9 J**
Adsorbable Organic Fluorine (AOF)	N	1621 Prep	Draft Method 1621	PLUG2	UG/L	**4.8 J**	**6.4 J**	**7.7 J**	**4.0 J**	**2.2 J**
Adsorbable Organic Fluorine (AOF)	N	NS	Draft Method 1621	SUM	UG/L	**15**	**25**	**25**	**12**	**5.1**
DONA	N	1633	EPA 1633 Draft	DIL	UG/L	<0.015				
DONA	N	1633	EPA 1633 Draft	INIT	UG/L		<0.015	<0.015	<0.015	<0.0013
DONA	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0050 UJ	<0.0050 UJ	<0.0050 UJ	<0.0025 UJ
DONA	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.0050	<0.0050	<0.0050	<0.00047
Fluoride	N	NS	300.0 Rev. 2.1	INIT	MG/L	<0.45	<0.45	<0.45	<0.45	<0.45
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	DIL	UG/L		**22**	**17**		**1.8**
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	DIL2	UG/L	**12**				
Hfpo Dimer Acid	N	1633	EPA 1633 Draft	INIT	UG/L				**4.9**	
Hfpo Dimer Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	DIL	UG/L	**8.1 J**	**13 J**	**9.1 J**		
Hfpo Dimer Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L				**3 J**	**1.2 J**
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L		**24**	**19**	**5.9**	**2.2**
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL2	UG/L	**14**				
Hfpo Dimer Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L					

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

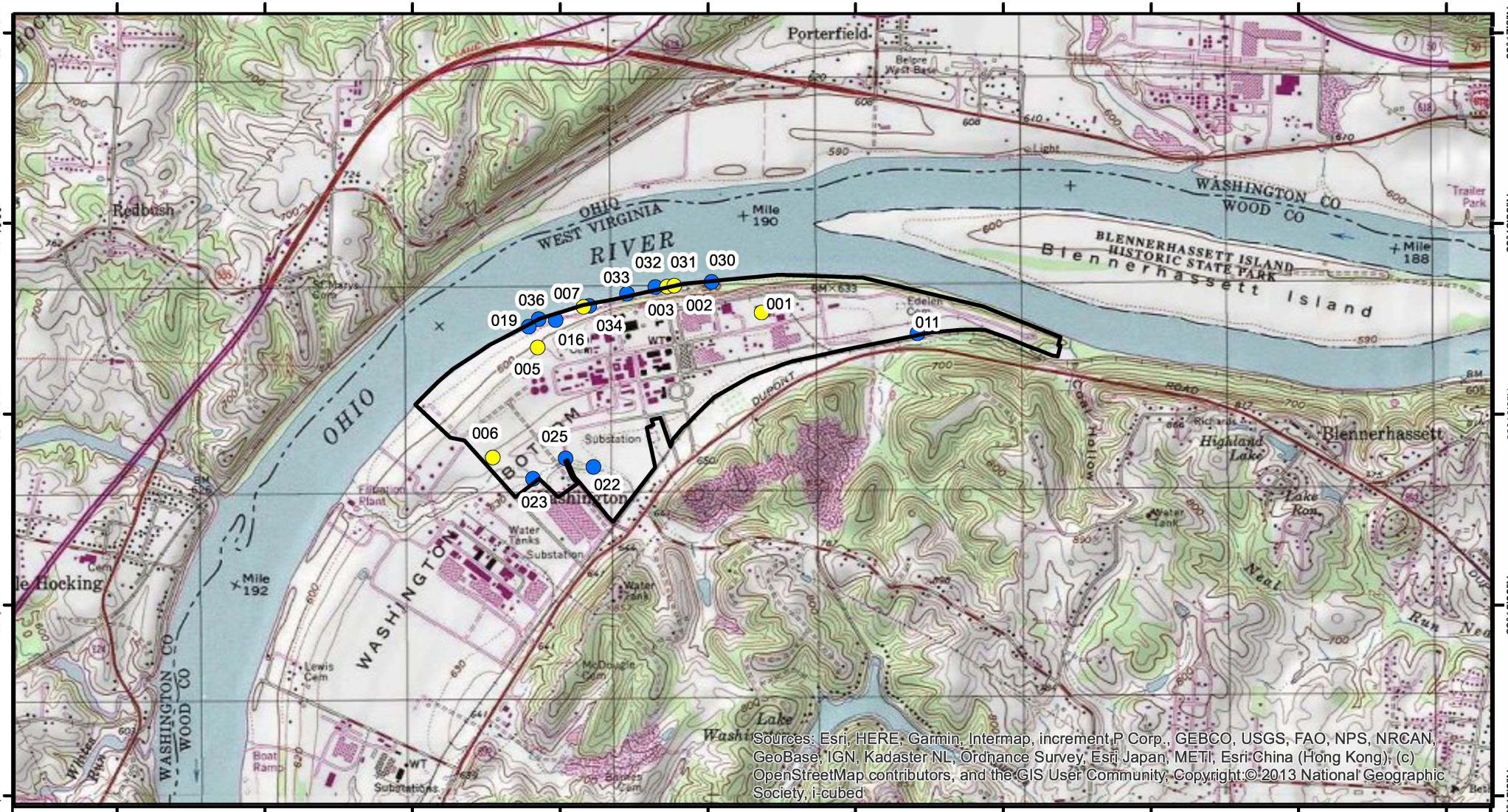
					Location ID	OUTLET 031	OUTLET 032	OUTLET 033	OUTLET 034	OUTLET 036
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	FS	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00068	<0.0070	<0.0070	<0.0070	<0.00062
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0025 UJ	<0.0050 UJ	<0.0050 UJ	<0.0050 UJ	<0.0025 UJ
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00045	<0.0050	<0.0050	<0.0050	<0.00047
N-ethylperfluoro-1-octanesulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00048	<0.0050	<0.0050	<0.0050	<0.00044
N-ethylperfluoro-1-octanesulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0020 UJ
N-ethylperfluoro-1-octanesulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00036	<0.0040	<0.0040	<0.0040	<0.00037
N-methyl perfluoro-1-octanesulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00048	<0.0050	<0.0050	<0.0050	<0.00044
N-methyl perfluoro-1-octanesulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0035 UJ	<0.0070 UJ	<0.0070 UJ	<0.0070 UJ	<0.0035 UJ
N-methyl perfluoro-1-octanesulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00063	<0.0070	<0.0070	<0.0070	<0.00065
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.0012	<0.012	<0.012	<0.012	<0.0011
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0020 UJ	<0.0040 UJ	<0.0040 UJ	<0.0040 UJ	<0.0020 UJ
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00036	<0.0040	<0.0040	<0.0040	<0.00037
Perfluoro(2-ethoxyethane)sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00048	<0.0050	<0.0050	<0.0050	<0.00044
Perfluorobutane Sulfonic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorobutane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.00055 J**	<0.0030	<0.0030	<0.0030	**0.00027 J**
Perfluorobutane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0015 UJ
Perfluorobutane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.00067 J**	<0.0030	<0.0030	<0.0030	**0.00036 J**
Perfluorobutanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.14**	**0.22**	**0.34**	**0.28**	**0.02**
Perfluorobutanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.13 J**	**0.21 J**	**0.33 J**	**0.27 J**	**0.022 J**
Perfluorobutanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.15 J**	**0.21**	**0.35 J**	**0.29**	**0.021**
Perfluorobutanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0.00031**
Perfluorobutanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.13 J**	**0.21 J**	**0.33 J**	**0.27 J**	**0.022 J**
Perfluorobutanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.15**	**0.21**	**0.35 J**	**0.29**	**0.021**
Perfluorodecane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00048	<0.0050	<0.0050	<0.0050	<0.00044
Perfluorodecane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0015 UJ
Perfluorodecane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.0030	<0.0030	<0.0030	<0.00028
Perfluorodecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L	**0.12**				
Perfluorodecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L		**0.79**	**0.5**	**0.21**	**0.013**
Perfluorodecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.18 J**	**0.63 J**	**0.42 J**	**0.24 J**	**0.011 J**
Perfluorodecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluorodecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.21**	**0.75**	**0.49 J**	**0.27**	**0.012**
Perfluorododecane Sulfonic Acid (PFDoS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00087	<0.0090	<0.0090	<0.0090	<0.00079
Perfluorododecane Sulfonic Acid (PFDoS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0015 UJ
Perfluorododecane Sulfonic Acid (PFDoS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.0030	<0.0030	<0.0030	<0.00028
Perfluorododecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.051**	**0.29**	**0.19**	**0.039**	**0.019**
Perfluorododecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.056 J**	**0.29 J**	**0.19 J**	**0.046 J**	**0.011 J**
Perfluorododecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.084**	**0.24**	**0.16 J**	**0.039**	**0.019**
Perfluoroheptane Sulfonic Acid (PFHpS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00039	<0.0040	<0.0040	<0.0040	<0.00035
Perfluoroheptane Sulfonic Acid (PFHpS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0015 UJ
Perfluoroheptane Sulfonic Acid (PFHpS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.0030	<0.0030	<0.0030	<0.00028
Perfluoroheptanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.3**	**0.47**	**0.79**	**0.3**	**0.02**
Perfluoroheptanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.26 J**	**0.43 J**	**0.74 J**	**0.3 J**	**0.018 J**
Perfluoroheptanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.31 J**	**0.48**	**0.85 J**	**0.35**	**0.021**
Perfluoroheptanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 031	OUTLET 032	OUTLET 033	OUTLET 034	OUTLET 036
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	FS	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
Perfluoroheptanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.26 J**	**0.43 J**	**0.74 J**	**0.3 J**	**0.018 J**
Perfluoroheptanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluoroheptanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.31**	**0.48**	**0.85 J**	**0.35**	**0.021**
Perfluorohexadecanoic Acid (PFHxDA)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0094 J**	**0.024 J**	**0.018 J**	**0.0075 J**	<0.0015 UJ
Perfluorohexadecanoic Acid (PFHxDA)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.015**	**0.025**	**0.022 J**	**0.011 J**	**0.0029**
Perfluorohexane Sulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.0013 J**	<0.0057	<0.0057	<0.0057	<0.00050
Perfluorohexane Sulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0011 J**	<0.0020 UJ	<0.0020 UJ	<0.0020 UJ	<0.0010 UJ
Perfluorohexane Sulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0015 J**	**0.0026 J**	<0.0020	<0.0020	**0.00043 J**
Perfluorohexanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorohexanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.24**	**0.35**	**0.63**	**1.1**	**0.05**
Perfluorohexanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.15 J**	**0.23 J**	**0.48 J**	**0.96 J**	**0.033 J**
Perfluorohexanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.21 J**	**0.28**	**0.56 J**	**1.1**	**0.045**
Perfluorohexanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**
Perfluorohexanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.15 J**	**0.23 J**	**0.48 J**	**0.96 J**	**0.033 J**
Perfluorohexanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluorohexanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.21**	**0.28**	**0.56 J**	**1.1**	**0.045**
Perfluorononanesulfonic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00039	<0.0040	<0.0040	<0.0040	<0.00035
Perfluorononanesulfonic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0015 UJ
Perfluorononanesulfonic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.0030	<0.0030	<0.0030	<0.00028
Perfluorononanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorononanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.39**	**1.6**	**1.9**	**0.5**	**0.026**
Perfluorononanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.38 J**	**1.1 J**	**1.3 J**	**0.42 J**	**0.019 J**
Perfluorononanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.45 J**	**1.2**	**1.4 J**	**0.43**	**0.02**
Perfluorononanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**
Perfluorononanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.38 J**	**1.1 J**	**1.3 J**	**0.42 J**	**0.019 J**
Perfluorononanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L	**0.45**				
Perfluorononanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L		**1.2**	**1.4 J**	**0.43**	**0.02**
Perfluorooctadecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0076 J**	**0.016 J**	**0.018 J**	**0.0076 J**	<0.0025 UJ
Perfluorooctadecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0070 J**	**0.015 J**	**0.015 J**	**0.0089 J**	**0.0014 J**
Perfluorooctane Sulfonamide	N	1633	EPA 1633 Draft	INIT	UG/L	**0.0017 J**	<0.0050	<0.0050	<0.0050	**0.0016 J**
Perfluorooctane Sulfonamide	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0030 UJ	<0.0030 UJ	**0.0047 J**	<0.0015 UJ
Perfluorooctane Sulfonamide	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.00048 J**	<0.0030	<0.0030	<0.0030	**0.00065 J**
Perfluoropentane Sulfonic Acid (PFPeS)	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00048	<0.0050	<0.0050	<0.0050	<0.00044
Perfluoropentane Sulfonic Acid (PFPeS)	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	<0.0015 UJ	<0.0030 UJ	<0.0030 UJ	<0.0030 UJ	<0.0015 UJ
Perfluoropentane Sulfonic Acid (PFPeS)	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	<0.00027	<0.0030	<0.0030	<0.0030	<0.00028
Perfluoropentanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.24**	**0.38**	**0.62**	**0.42**	**0.18**
Perfluoropentanoic Acid	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.22 J**	**0.35 J**	**0.54 J**	**0.4 J**	**0.17 J**
Perfluoropentanoic Acid	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.24 J**	**0.37**	**0.62 J**	**0.44**	**0.19**
Perfluoropentanoic Acid	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**
Perfluoropentanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.22 J**	**0.35 J**	**0.54 J**	**0.4 J**	**0.17 J**
Perfluoropentanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluoropentanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.24**	**0.37**	**0.62 J**	**0.44**	**0.19**
Perfluorotetradecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.022**	**0.039**	**0.033**	**0.012 J**	**0.01**
Perfluorotetradecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0075 J**	**0.023 J**	**0.019 J**	**0.0073 J**	**0.0027 J**
Perfluorotetradecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.023**	**0.024**	**0.018 J**	**0.0095 J**	**0.011**

Table 1
Chemours Washington Works Stormwater Sampling – March 26, 2024
Washington Works, Parkersburg, West Virginia

					Location ID	OUTLET 031	OUTLET 032	OUTLET 033	OUTLET 034	OUTLET 036
					Date Sampled	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
					Sample Purpose	FS	FS	FS	FS	FS
					Start Depth - End Depth					
Parameter Name	Filtered	Preparation Method	Lab Method	Analysis Type Code	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
Perfluorotridecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluorotridecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.086**	**0.21**	**0.15**	**0.038**	**0.059**
Perfluorotridecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.033 J**	**0.15 J**	**0.099 J**	**0.025 J**	**0.016 J**
Perfluorotridecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.069**	**0.11**	**0.077 J**	**0.024**	**0.036**
Perfluoroundecanoic Acid	N	1633	EPA 1633 Draft	DIL	UG/L					
Perfluoroundecanoic Acid	N	1633	EPA 1633 Draft	INIT	UG/L	**0.21**	**1.4**	**0.82**	**0.2**	**0.025**
Perfluoroundecanoic Acid	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.34 J**	**1.3 J**	**0.83 J**	**0.27 J**	**0.021 J**
Perfluoroundecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L					
Perfluoroundecanoic Acid	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.35**	**1.3**	**0.8 J**	**0.24**	**0.023**
PFECA B	N	1633	EPA 1633 Draft	INIT	UG/L	<0.00097	<0.01	<0.01	<0.01	<0.00088
PFECA-A	N	1633	EPA 1633 Draft	INIT	UG/L	**0.0052**	<0.01	**0.011 J**	**0.017 J**	<0.00088
PFECA-F	N	1633	EPA 1633 Draft	INIT	UG/L	**0.0058**	**0.0090 J**	**0.016 J**	**0.019 J**	<0.00044
PFOA	N	1633	EPA 1633 Draft	DIL	UG/L			**5.4**		
PFOA	N	1633	EPA 1633 Draft	INIT	UG/L	**0.48**	**1.2**		**3.9**	**0.19**
PFOA	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**0.29 J**	**0.88 J**	**4.4 J**	**2.6 J**	**0.11 J**
PFOA	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**0.4 J**	**1.1**	**5.1 J**	**3.1**	**0.13**
PFOA	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**
PFOA	N	TOPS_Post_Prep	T-PFAS-WI18548	DIL	UG/L			**4.4 J**		
PFOA	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.29 J**	**0.88 J**		**2.6 J**	**0.11 J**
PFOA	N	TOPS_Pre_Prep	WS-LC-0025	DIL	UG/L	**0.4**		**5.1**		
PFOA	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L		**1.1**		**3.1**	**0.13**
PFOS	N	1633	EPA 1633 Draft	INIT	UG/L	**0.0034**	**0.016 J**	<0.0050	<0.0050	**0.00066 J**
PFOS	N	TOPS_Post_Prep	T-PFAS-WI18548	INIT	UG/L	**0.0052 J**	**0.012 J**	<0.0050 UJ	<0.0050 UJ	<0.0025 UJ
PFOS	N	TOPS_Pre_Prep	WS-LC-0025	INIT	UG/L	**0.0061**	**0.014 J**	<0.0050	<0.0050	**0.00095 J**
Total PFCA	N	Auto_TOPS_Post	Total PFCA-Sum	INIT	UG/L	**1.4 J**	**3.2 J**	**7.8 J**	**5 J**	**0.37 J**
Total PFCA	N	Auto_TOPS_Pre	Total PFCA-Sum	INIT	UG/L	**1.8 J**	**3.6**	**8.9 J**	**5.7**	**0.43 J**
Total PFCA	N	NS	Total PFCA-Dif	INIT	UG/L	**0**	**0**	**0**	**0**	**0**



WGS_1984_Web_Mercator_Auxiliary_Sphere
WKID: 3857 Authority: EPSG

Projection: Mercator_Auxiliary_Sphere
False_Easting: 0.0
False_Northing: 0.0
Central_Meridian: 0.0
Standard_Parallel_1: 0.0
Auxiliary_Sphere_Type: 0.0
Linear Unit: Meter (1.0)



Figure 1
Site and Sample Locations
Chemours Washington Works
Washington, West Virginia

Job:	
Prepared by: LD	
Checked By: JJP	
Date: December 21, 2022	

AECOM
625 West Ridge Pike, Suite E-11
Conshohocken, PA 19428
Phone: (610) 234-5402

Appendix B

Field Readings, Field Sheets, and Photographs of Stormwater Outlets

Corporate Remediation Group - Field Book

Site: WASH WORK Event: AOC SAMPLING Date: 3-26-24 Time: 0630
Personnel: J. HILL T. HOTSS Project Manager:
Well ID: Permit No: VO Vapors: PIDFID BZ
PIDFID CA
Weather Conditions: ☐ Clear ☐ Cloudy ☐ Other ☐ Wind: Temp: °F

Well Depth: LNAPL: Purge Method:
Depth to Water: DNAPL: Purge Start:
Water Column: Casing Dia: Purge Stop:
Well Vol: Conv. Factor: Parameter Collection Time:
Well Vol (3x): Purge Rate: Water Level Stable @:

~~DUP~~

Parameters	011	023	025	022	006	~~Sample~~	Analysis Time
pH	7.54	8.67	8.02	8.30	8.21		
Temperature (°C)	11.7	11.3	11.0	10.5	11.6		
Specific Conductance (umho)							
Dissolved Oxygen (mg/l)							
~~Redox (mV)~~ SAMPLE TIME	1245	1300	1310	1325	1335		
Turbidity (ntu)							
Color	STAINED	STAINED	MUDDY	STAINED	STAINED		
Odor	NONE	NONE	NONE	NONE	NONE		

Sample Date: Sample Collection Time: Sample Method: GRAB

Analysis	Volume (ml)	#	Preservative	Zero HS	Comments:
					MOTOR HI 98129
					pH CAL @ 0630
					7 | 7.01
					4 | 4.01
					10 | 10.02
					1413 | 1418

Analyst Name:
Analyst Signature: Date:

26900

Corporate Remediation Group - Field Book

Site: WASH WORKS Event: AOC SAMPLING Date: 3-26-24 Time: NOON
Personnel: J. SANDERS B. BOWIE C. LANDERIOS Project Manager: _____
Well ID: _____ Permit No: _____ VO Vapors: PIDIFID BZ: _____
PIDIFID CA: _____
Weather Conditions: ☐ Clear ☐ Cloudy ☐ Other ☐ Wind: Temp: °F

Well Depth: _____ LNAPL: _____ Purge Method: _____
Depth to Water: _____ DNAPL: _____ Purge Start: _____
Water Column: _____ Casing Dia: _____ Purge Stop: _____
Well Vol: _____ Conv. Factor: _____ Parameter Collection Time: _____
Well Vol (3x): _____ Purge Rate: _____ Water Level Stable @: _____

Parameters	005					Sample	Analysis Time
pH	7.84						
Temperature (°C)	64.0						
Specific Conductance (umho)							
Dissolved Oxygen (mg/l)							
~~Redox (mV)~~ SAMPLE TIME	1245						
Turbidity (ntu)							
Color							
Odor							

Sample Date: _____ Sample Collection Time: _____ Sample Method: _____

Analysis	Volume (ml)	#	Preservative	Zero HS	Comments:

Analyst Name: _____
Analyst Signature: _____ Date: _____

26900

Corporate Remediation Group - Field Book

Site: WASH WORKS Event: AOC SAMPLING Date: 03-26-24 Time: NOON
Personnel: J.KNAPP A.POARCO D.CALDBAUGH Project Manager: _____
Well ID: _____ Permit No: _____ VO Vapors: PIDIFID BZ: _____
PIDIFID CA: _____
Weather Conditions: ☐ Clear ☐ Cloudy ☐ Other ☐ Wind: Temp: °F

Well Depth: _____ LNAPL: _____ Purge Method: _____
Depth to Water: _____ DNAPL: _____ Purge Start: _____
Water Column: _____ Casing Dia: _____ Purge Stop: _____
Well Vol: _____ Conv. Factor: _____ Parameter Collection Time: _____
Well Vol (3x): _____ Purge Rate: _____ Water Level Stable @: _____

Parameters	001	002	003	030	FB	~~Sample~~	Analysis Time
pH	8.49	7.83	8.09	8.13			
Temperature (°C)	10.9	22.0	13.2	10.1			
Specific Conductance (umho)							
Dissolved Oxygen (mg/l)							
~~Redox (mV)~~ EASTERN TIME	1250	1350	1330	1410	1445	1430	
Turbidity (ntu)							
Color							
Odor							

Sample Date: _____ Sample Collection Time: _____ Sample Method: _____

Analysis	Volume (ml)	#	Preservative	Zero HS	Comments:
					MOTOR HI 98129
					pH CAL @ 0800
					ROAD / ACCEPT
					7 / 7.01
					4 / 4.01
					10 / 10.03
					1413 / 1413
					001 – SURFACE WATER FROM
					SURROUNDING AREA RUNNING
					INTO MANHOLE

Analyst Name: _____
Analyst Signature: _____ Date: _____

26900

Corporate Remediation Group - Field Book

Site: WASH WORKS Event: AOC SAMPLING Date: 03-26-24 Time: 1215
Personnel: W. BURNS M. WHITTINGTON Project Manager:
Well ID: Permit No: VO Vapors: PIDFID BZ: PIDFID CA:
Weather Conditions: ☐ Clear ☐ Cloudy ☐ Other ☐ Wind: Temp: °F

Well Depth: LNAPL: Purge Method:
Depth to Water: DNAPL: Purge Start:
Water Column: Casing Dia: Purge Stop:
Well Vol: Conv. Factor: Parameter Collection Time:
Well Vol (3x): Purge Rate: Water Level Stable @:

Parameters	031	032	033	034	007	016 ~~Sample~~	036 ~~Analysis Time~~	019
pH	7.71	7.77	7.80	7.97	8.15	8.05	8.08	
Temperature (°C)	10.1	9.7	9.9	10	26.2	10	10.4	
Specific Conductance (umho)								
Dissolved Oxygen (mg/l)								
~~Redox (mV)~~ SAMPLE TIME	1245	1255	1305	1315	1325	1340	1350	
Turbidity (ntu)								
Color								
Odor								

NO FLOW

Sample Date: Sample Collection Time: Sample Method:

Analysis	Volume (ml)	#	Preservative	Zero HS	Comments:
					pH METER HI 98130
					CAL @ 3-26-24 0920
					10 | 10.04
					7 | 7.02
					4 | 4.02

Analyst Name:
Analyst Signature: Date:

26900

STORM EVENT LOG

02-22-2024 – Rain started approximately 0600. Outfalls did not start flowing until 1530 to 1545 and thunderstorms and lighting had moved into the area. Unable to collect samples due to thunderstorms in the area.

02-28-2024 – Rain started roughly 0730 and reached our needed amount for there to be flow at the outfalls but the rain did not continue. According to the sampling plan we must have continued rainfall for the sampling event. Rain was very light and sporadic. It would stop and start with no heavy periods of rainfall.

03-15-2024 – Rain started around 0039 and continued with some thunderstorm activity until approximately 0400, where the amount reached 0.47". Outfalls were checked at 0830 and had stopped flowing. Rain had been forecasted to last the entire day but did not start again.

03-26-2024 – Rain started at 0700 and ended at roughly 1900. Outfalls started having flow approximately noon. Sampling started at 1245 and was completed at 1410.

Photo No.	**Date:**
1	02/28/2004

Direction Photo Taken:
Facing southwest

Description:
Outfall 016 shows standing water as it exits the outlet. Water sits and pools after rain events. Not enough sustained rainfall to make the water flow when this photograph was taken.

A grab sample was collected on 03/26/2024 during a period of sustained rainfall when the outlet was flowing.



Photo No.	**Date:**
2	02/28/2024

Direction Photo Taken:
Facing southwest

Description:
Outfall 019 showing the dry outlet after a rain event. Leaves and other debris inside the pipe.

This outlet had no flow on 03/26/2024 during the period of sustained rainfall during which the other outlets had flow. No sample could be collected.



Photo No.	**Date:**
3	02/28/2024

Direction Photo Taken:
Facing southwest

Description:
Outfall 022 showing no flow after a rain event. Not enough sustained rain to make the outfall flow.

A grab sample was collected on 03/26/2024 during a period of sustained rainfall when the outlet was flowing.



Photo No.	**Date:**
4	02/28/2024

Direction Photo Taken:
Facing southwest

Description:
Outfall 023 showing low flow after rain event.

A grab sample was collected on 03/26/2024 during a period of sustained rainfall when the outlet was flowing.



Photo No.	**Date:**
5	02/28/2024

Direction Photo Taken:
Facing northeast

Description:
Outfall 025 showing no flow after a rain event. Interior of pipe had to be cleaned out.

A grab sample was collected on 03/26/2024 during a period of sustained rainfall when the outlet was flowing.



Photo No.	**Date:**
6	02/28/2024

Direction Photo Taken:
Facing north.

Description:
Outfall 030 showing good flow after a rain event.

A grab sample was collected on 03/26/2024 during a period of sustained rainfall when the outlet was flowing.



Photo No. 7	**Date:** 02/28/2024
Direction Photo Taken: Facing north	
Description: Outfall 031showing good flow after a rain event. A grab sample was collected on 03/26/2024 during a period of sustained rainfall when the outlet was flowing.	

Photo No.	**Date:**
8	02/28/2024

Direction Photo Taken:
Facing southeast

Description:
Outfall 032 showing water pooled around the outlet after a rain event.

A grab sample was collected when water was flowing on 03/26/2024 during a period of sustained rainfall.



Photo No.	**Date:**
9	02/28/2024

Direction Photo Taken:
Facing southeast

Description:
Outfall 033 showing flow after a rain event.

A grab sample was collected on 03/26/2024 during a period of sustained rainfall when the outlet was flowing.



Photo No.	**Date:**
10	02/28/2024

Direction Photo Taken:
Facing southwest

Description:
Outfall 034 showing flow after a rain event.

A grab sample was collected 03/26/2024 during a period of sustained rainfall when the outlet was flowing.



Photo No.	**Date:**
11	02/28/2024

Direction Photo Taken:
Facing southwest

Description:
Outfall 036 showing flow after a rain event.

A grab sample was collected 03/26/2024 during a period of sustained rainfall when the outlet was flowing.



Appendix C

Laboratory Reports

Appendix H

EPA 2006 RFI Approval Letter

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029
February16, 2006

Mr. Andrew Hartten
DuPont Engineering
Project Director
Barley Mill Plaza - Bldg 27
Lancaster Pike & Route 141
Wilmington DE 19805

RE: Approval of RCRA Facility Investigation Report

Dear Mr. Hartten:

This letter is to inform you that EPA Region III has approved the RCRA Facility Investigation Report for DuPont Washington Works in Washington, West Virginia. The investigation characterized solid waste management unit (SWMU) related contaminants and provided the information necessary to move forward with a Corrective Measures Study (CMS) for the facility. The purpose for the CMS will be to evaluate the best remedial action to implement at the various SWMUs. The approval for this RFI report was delayed as a result of the on-going investigations into the toxicity and the extent of contamination of the site-related compound, ammonium perfluorooctanoate (PFOA). At this time Region III believes that the PFOA information gathered during the past few years will not affect the site characterization completed during the RFI. The new information obtained and any additional information that is generated from on-going investigations will be evaluated during the CMS and will be incorporated into the remedy selection process.

If you have any questions or I can be of further assistance, please contact me at (215) 814-3184.

Sincerely,

William C Wentworth

William C. Wentworth
Remedial Project Manager

cc: Bob Greaves, EPA
Mark Priddy, WVDEP
Robert L. Ritchey, DuPont

Printed on 100% recycled/recyclable paper with 100% post-consumer fiber and process chlorine free.
Customer Service Hotline: 1-800-438-2474

Appendix L

Environmental Protection Agency Off-Site Environmental Media Sample Results

Microsoft Excel-based data file submitted separately

Attachment 2

Washington Works Site Groundwater Capture Update and Basis for Financial Assurance Calculation

Initial: January 2021
Revised: April 2021

July 21, 2021

Washington Works RCRA Corrective Action Final Remedy Groundwater Capture Financial Assurance Calculation

- The defined RCRA Final Remedy for Washington Works requires the site to maintain groundwater capture/inward gradient by production well pumping and to treat that water prior to discharge.
- In order to update the RCRA Financial Assurance calculation for costs related to groundwater capture, this presentation has been prepared to document relevant pumping rate and annual treatment volume.
- This documentation includes:
  - Elements of original 2003 Groundwater Modeling report,
  - Updated estimate of minimum essential pumping needed (i.e.; Ranney Well) to maintain groundwater capture/inward gradient, and
  - Estimated annual cost to run new Ranney Well granular activated carbon (GAC) treatment system, when operational.

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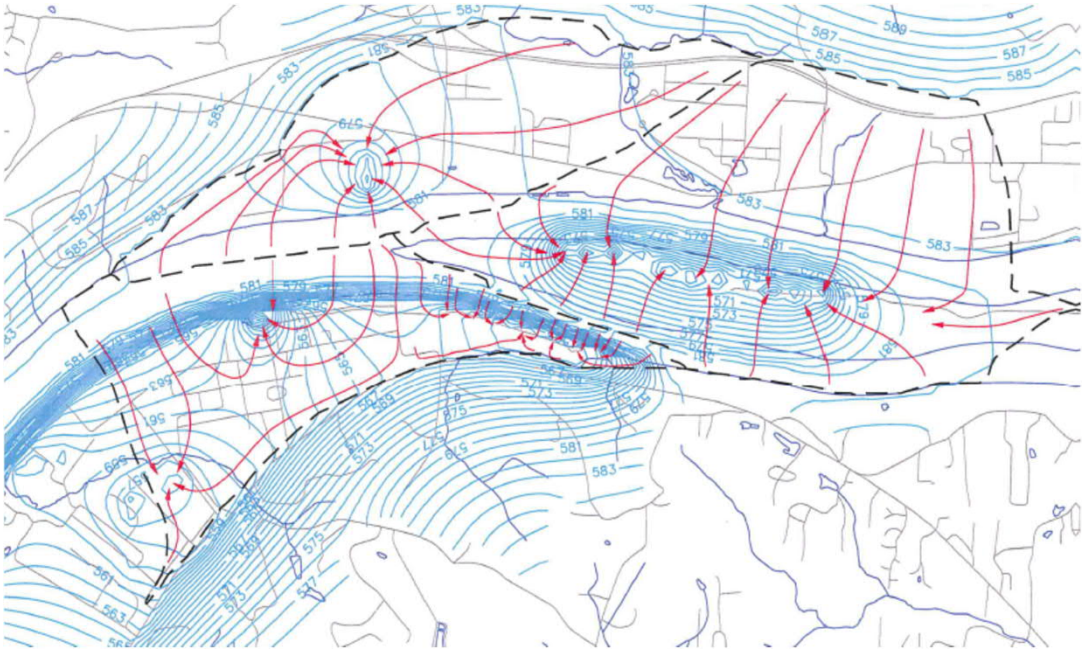
Washington Works Site Groundwater Facts

- The Washington Works site uses approximately 10 million gallons a day (MGD) of pumped groundwater for production uses.
- The groundwater comes from the Ranney Well, the East Field, and the West Field (all on-site) and the Blennerhassett Island pumping centers.
- Blennerhassett Island groundwater is not hydraulically connected to main plant groundwater and is not relevant to maintaining site groundwater capture.
- The 2003 Groundwater Model showed site production well pumping easily maintains site groundwater capture/inward gradient.
- Former GE/Sabic plant to west no longer pumps groundwater and any influence of their pumping no longer exists.
- Recent (2021) groundwater modeling simulations show that pumping of Ranney Well alone will maintain site groundwater capture.
- **Key Note: If the entire site shut down operations, only the Ranney Well would need to be pumped and treated long term to maintain Final Remedy requirement**

2003 Groundwater Model

- The 2015 WVDEP Statement of Basis recognized that site groundwater capture is maintained by production well pumping as demonstrated in the 2003 Groundwater Model Report.
- Typical Site Pumping Conditions (2003 Report Figure 14-A)



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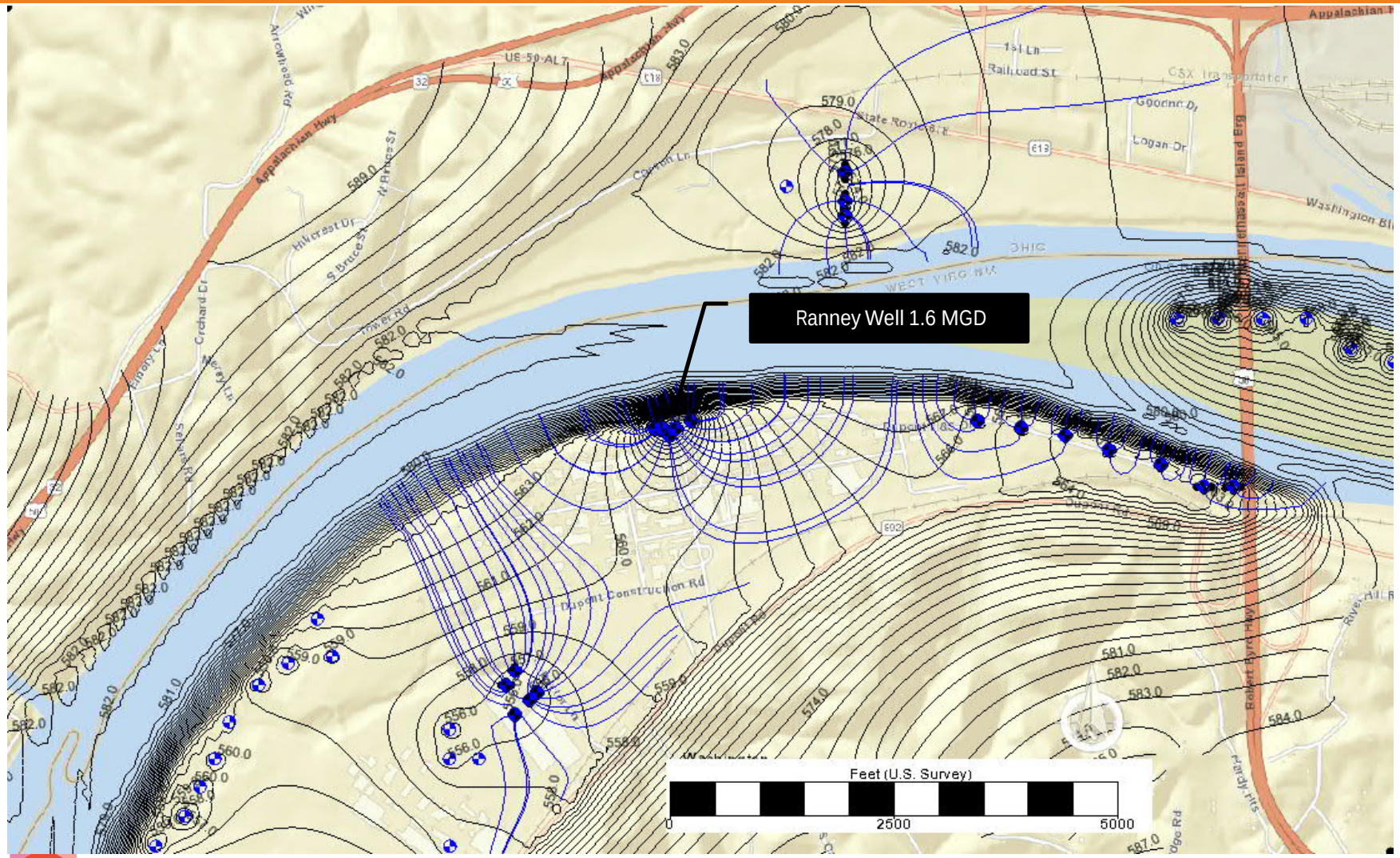
Revised Modeling - 2021

- In March 2021, the MODFLOW groundwater flow model for the Washington Works and surrounding area (DuPont, 2003) was used to simulate the groundwater surface and resultant groundwater control assuming actual and reduced flows at the Ranney well. MODPATH was used to track predicted groundwater flow.
- The first simulation was to confirm current conditions with all wells/well fields operating at current flow rates.
- During 2019 and 2020, Ranney Well has been operating at 1.6 MGD.

2021 Modeling - Current Conditions (all wells on)



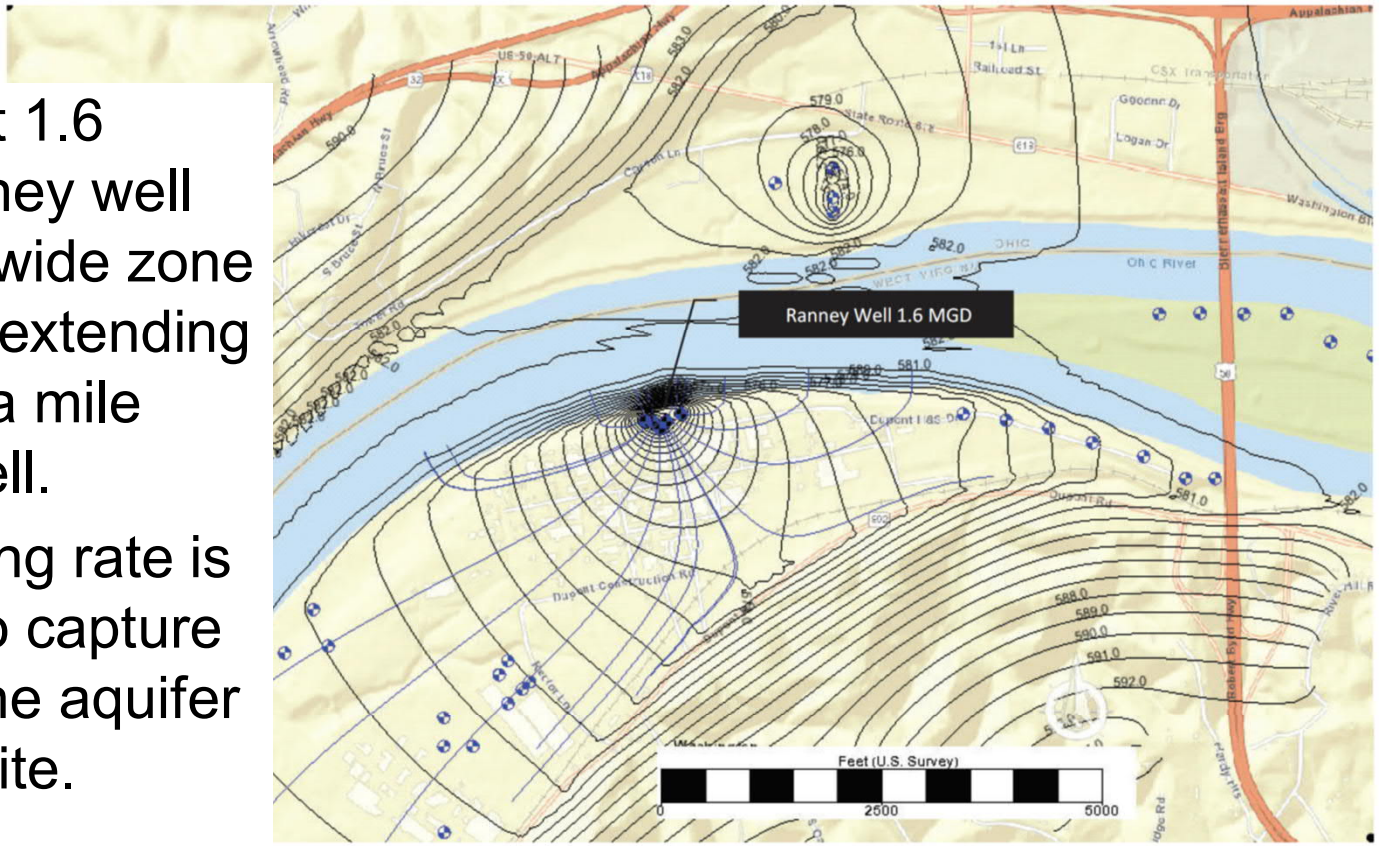
Particle tracks run backward in time from pumping wells
Ranney well flow based on yearly average of 2019 and 2020 flow

2021 Modeling – Hypothetical Conditions

- The next set of simulations were performed to test hydraulic capture under the conditions expected if the site were to be shut down. In that situation, it is assumed that only the Ranney well will be in operation.
- Figures displaying the predicted potentiometric surface maps with only the Ranney Well in operation are provided as Figures 5.5 through 5.7.
- Figure 5.5 shows the predicted groundwater surface map for the Ranney Well pumping at the 2019/2020 annual average flow of 1.6 million MGD.
- Figures 5.6 and 5.7 show the predicted groundwater surface maps for the Ranney Well pumping at reduced flow rates of 75 per cent (%) and 50%, respectively, of the 2019/2020 annual average flow of 1.6 MGD.
- Hydraulic containment of on-site groundwater is predicted by the inward hydraulic gradient even in the 50% scenario, which represents Ranney Well operating at 0.8 MGD.

Modeled Flow – Ranney Well at 1.6 MGD (100%)

- With flow at 1.6 MGD, Ranney well has a very wide zone of capture, extending more than a mile from the well.
- This pumping rate is predicted to capture all flow in the aquifer under the site.



C:\DuPont\Washington Works\GIS\Projects\606

AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, DE 19713

Notes:
Particle tracks run backward in time from pumping wells.

MGD = millions of gallons per day

PREDICTED GROUNDWATER SURFACE MAP - ONLY RANNEY WELL PUMPING AT 100% OF THE 2019/2020 AVERAGE FLOW

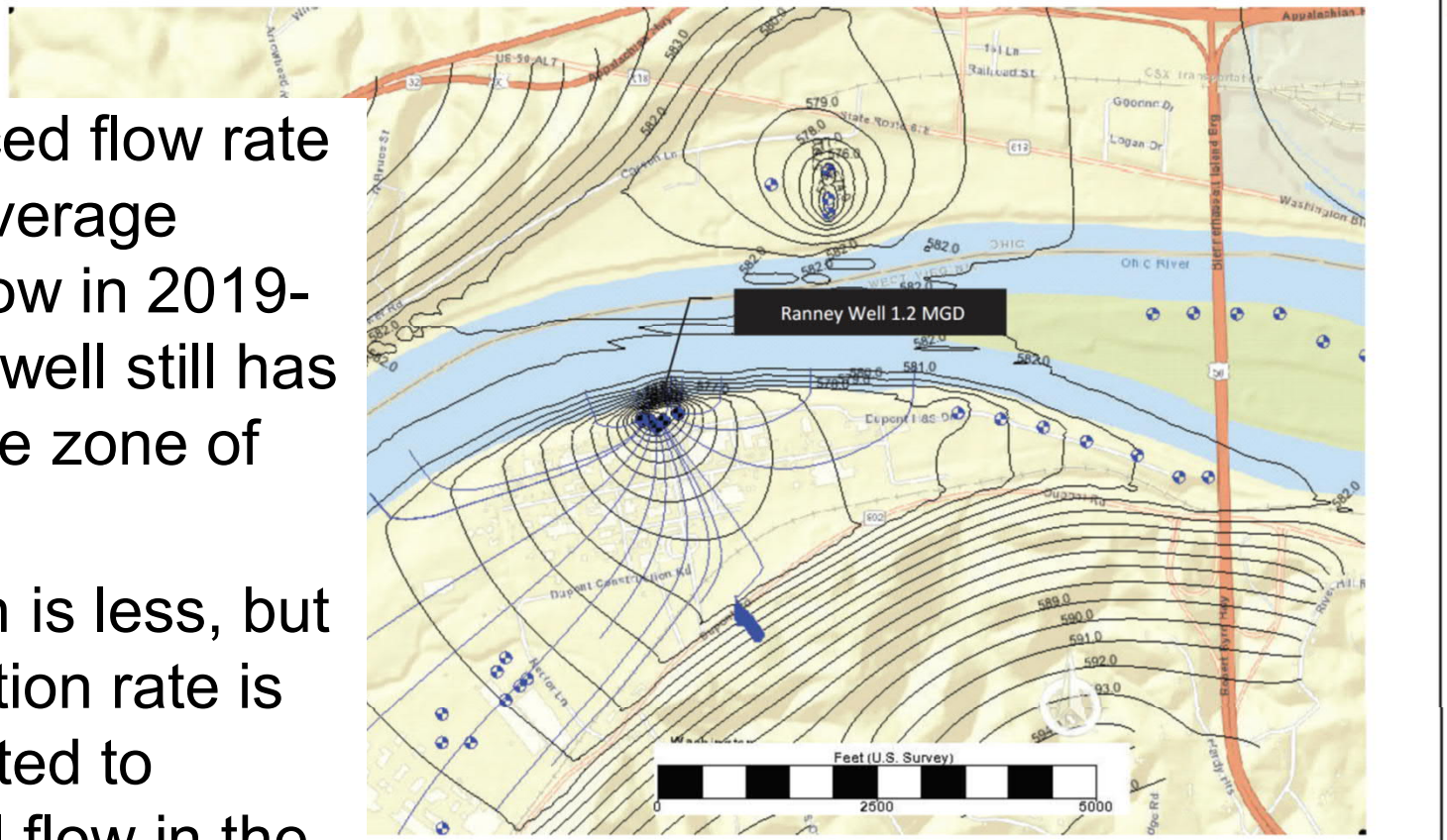
2020 Routine Monitoring and Corrective Measures Assessment Program Report
Chemours Washington Works Plant
Washington, West Virginia

TASK NUMBER:	21005
PROJECT NUMBER:	60648777
DESIGNED BY:	S. MORGAN
DATE:	3/22/2021
DRAWN BY:	C. DUFFY
FIGURE NUMBER:	5-5
DATA QUALITY CHECK BY:	G. GREGORY

Chemours™

Modeled Flow – Ranney Well at 1.2 MGD (75%)

- At a reduced flow rate (75% of average Ranney flow in 2019-2020) the well still has a very wide zone of capture.
- Drawdown is less, but the extraction rate is still predicted to capture all flow in the aquifer under the site.



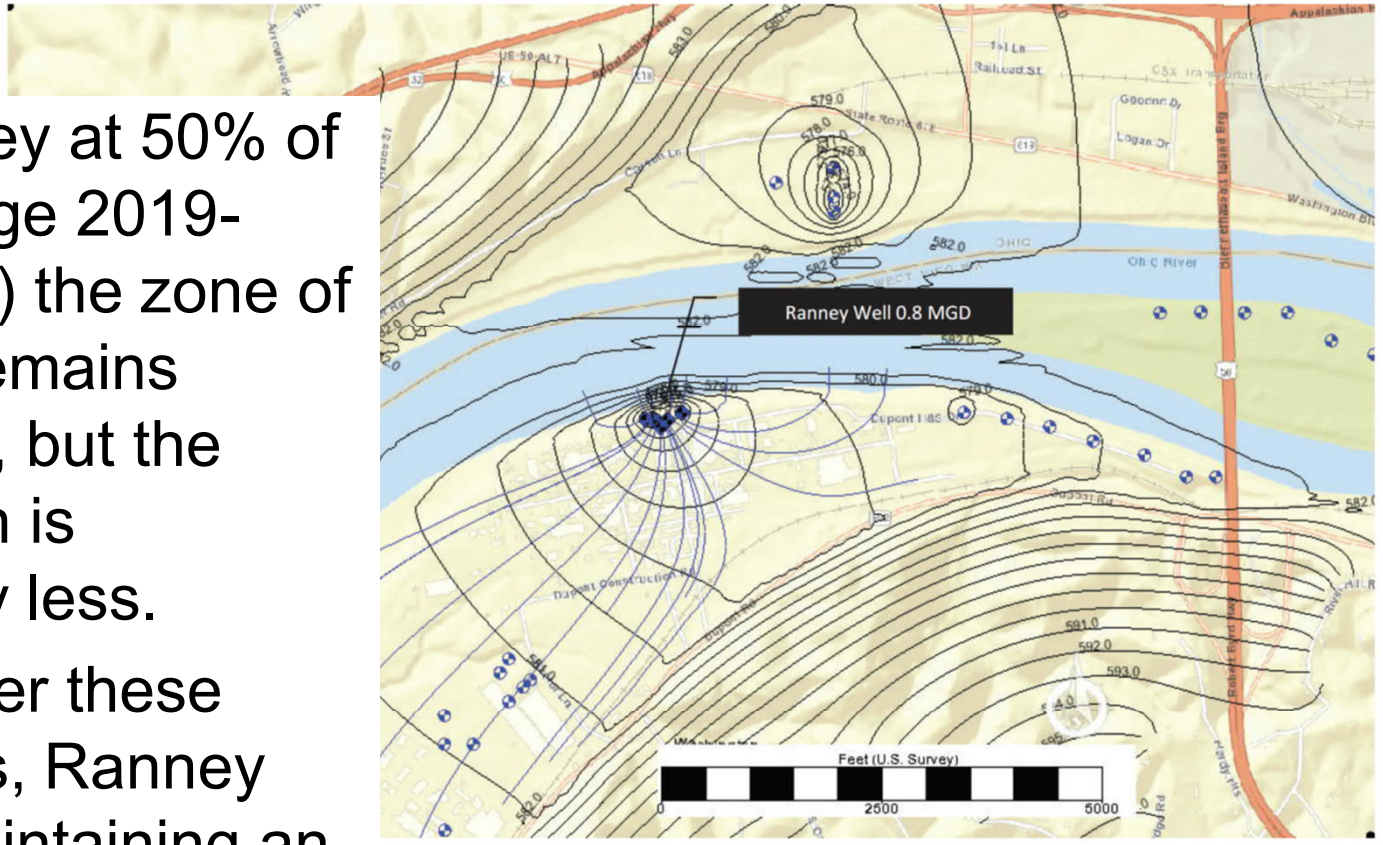
backward in time from pumping wells.
allons per day

PREDICTED GROUNDWATER SURFACE MAP - ONLY RANNEY WELL PUMPING AT 75% OF THE 2019/2020 AVERAGE FLOW	TASK NUMBER: 21005	PROJECT NUMBER: 60648777
	DESIGNED BY: S. MORGAN	DATE: 3/22/2021
2020 Routine Monitoring and Corrective Measures Assessment Program Report Chemours Washington Works Plant Washington, West Virginia	DRAWN BY: C. DUFFY	FIGURE NUMBER: 5-6
	DATA QUALITY CHECK BY: G. GREGORY	

4051 Ogletown Road
Newark, DE 19713

Modeled Flow – Ranney Well at 0.8 MGD (50%)

- With Raney at 50% of the average 2019-2020 flow) the zone of capture remains extensive, but the drawdown is noticeably less.
- Even under these conditions, Ranney well is maintaining an inward gradient.



ckward in time from pumping wells.

lons per day

PREDICTED GROUNDWATER SURFACE MAP - ONLY RANNEY WELL PUMPING AT 50% OF THE 2019/2020 AVERAGE FLOW	TASK NUMBER: 21005	PROJECT NUMBER: 60648777
	DESIGNED BY: S. MORGAN	DATE: 3/22/2021
2020 Routine Monitoring and Corrective Measures Assessment Program Report Chemours Washington Works Plant Washington, West Virginia	DRAWN BY: C. DUFFY	FIGURE NUMBER: 5-7
	DATA QUALITY CHECK BY: G. GREGORY	

4051 Ogletown Road
Newark, DE 19713

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Basis For Financial Assurance Estimate
Groundwater Pumping to Maintain Sitewide Capture

- The Washington Works facility can maintain sitewide groundwater capture (inward gradients) solely through Ranney Well pumping. Assuming continuous operation, the Ranney well can contain groundwater across the site even at 50% of the 2019/2020 rate (0.8 MGD).
- Ranney Well average pumping rate for 2019/2020 was 1.6 MGD. This groundwater extraction rate is used for FA calculation and provides ample excess drawdown to maintain control of groundwater under the site.

(References: 2019 and 2020 Long Term Groundwater Monitoring Report-Production Well Pumping Rates and Figures 5.5 through 5.7 of the 2020 CMI Annual Report)

Basis For Financial Assurance Estimate
Groundwater Pumping to Maintain Sitewide Capture

The Washington Works site is currently constructing a GAC system to treat the Ranney Well production water that will be operational in late September 2021.

- The GAC treatment system was designed to remove PFOA and other site constituents
- The treatment system is under construction and is scheduled to be operational in September.
- Average daily system operation is anticipated to be 1,400 gpm (2 MGD).
- OM&M for the system will require use of 140,000 pounds of GAC per year (2 system change outs per year) and routine sampling and analysis.

Financial Assurance Initial Cost Estimate

In the FA calculation, the following assumptions were used:

- Average daily system operation to maintain hydraulic control is 1.6 MGD based on the 2019/2020 average flow and assuming Ranney Well is the only well in operation
- Annual treatment costs based on 1.6 MGD:
  - Analytical cost: $12,500 (same sampling program as for 2 MGD)
  - Based on one change out (70,000 pounds) of GAC every 9 months, GAC and OM&M cost: $150,000 per year

Appendix J

On-Site Water Data Included in Summary Tables

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	PFOA	PFOA	7.4	7400	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorobutanoic Acid	PFBA	0.065	65	Y		J	Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluoroheptanoic Acid	PFHpA	0.32	320	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluoropentanoic Acid	PFPA	0.04	40	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorohexanoic Acid	PFHxA	0.078	78	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AE11-MW01-A	AE11-MW01	3/22/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	PFOA	PFOA	11.0	11000	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U,I		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,I		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluoroheptanoic Acid	PFHpA	0.59	590	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorobutanoic Acid	PFBA	0.084	84	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluoropentanoic Acid	PFPA	0.047	47	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q19GW-AE11-MW01-A	AE11-MW01	6/13/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	PFOA	PFOA	10	10000	Y	I		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluoroheptanoic Acid	PFHpA	0.55	550	Y	I		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorobutanoic Acid	PFBA	0.088	88	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluoropentanoic Acid	PFPA	0.062	62	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorohexanoic Acid	PFHxA	0.14	140	Y	I		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
3Q19GW-AE11-MW01-A	AE11-MW01	9/17/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	PFOA	PFOA	9.6	9600	Y	I		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorobutanoic Acid	PFBA	0.072	72	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluoroheptanoic Acid	PFHpA	0.51	510	Y	I		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluoropentanoic Acid	PFPA	0.042	42	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorohexanoic Acid	PFHxA	0.11	110	Y	I		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q19GW-AE11-MW01A	AE11-MW01	12/10/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	PFOA	PFOA	12	12000	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorobutanoic Acid	PFBA	0.070	70	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluoroheptanoic Acid	PFHpA	0.70	700	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluoropentanoic Acid	PFPA	0.056	56	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorohexanoic Acid	PFHxA	0.15	150	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1Q20GW-AE11-MW01-A	AE11-MW01	3/11/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	PFOA	PFOA	9.9	9900	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorobutanoic Acid	PFBA	0.055	55	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluoroheptanoic Acid	PFHpA	0.42	420	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluoropentanoic Acid	PFPA	0.042	42	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2Q20GW-AE11-MW01-A	AE11-MW01	5/29/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	PFOA	PFOA	13	13000	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorobutanoic Acid	PFBA	0.096	96	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluoroheptanoic Acid	PFHpA	0.66	660	Y		J	Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluoropentanoic Acid	PFPA	0.060	60	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorohexanoic Acid	PFHxA	0.14	140	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
3Q20GW-AE11-MW01-A	AE11-MW01	8/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	PFOA	PFOA	12	12000	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluoroheptanoic Acid	PFHpA	0.71	710	Y		J	Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	PFOS	PFOS	0.23	230	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorobutanoic Acid	PFBA	0.070	70	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluoropentanoic Acid	PFPA	0.057	57	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
4Q20GW-AE11-MW01-A	AE11-MW01	11/4/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorobutanoic Acid	PFBA	0.046	46	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluoroheptanoic Acid	PFHpA	0.53	530	Y		J	Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluoropentanoic Acid	PFPA	0.033	33	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorohexanoic Acid	PFHxA	0.070	70	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
1H21GW-AE11-MW01-A	AE11-MW01	3/24/2021	PFOA	PFOA	13	13000	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	Perfluorobutanoic Acid	PFBA	0.055	55	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	Perfluoroheptanoic Acid	PFHpA	0.52	520	Y			Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26896286	-81.6620865
2H21GW-AE11-MW01-A	AE11-MW01	9/10/2021	Perfluoropentanoic

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluorononanoic Acid	PFNA	0.0094	9.4	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluoropentanoic Acid	PFPA	0.044	44	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluorohexanoic Acid	PFHxA	0.098	98	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0026	2.6	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
1H23GW-AE11-MW01-A	AE11-MW01	5/9/2023	PFOA	PFOA	16	16000	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.013	13	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.013	13	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.013	13	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.031	31	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.031	31	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.016	16	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.079	79	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.013	13	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.079	79	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.013	13	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	DONA	DONA	0.013	13	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0063	6.3	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorobutanoic Acid	PFBA	0.063	63	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorodecanoic Acid	PFDA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorododecanoic Acid	PFDoA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluoroheptanoic Acid	PFHpA	0.28	280	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorohexanoic Acid	PFHxA	0.086	86	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorononanoic Acid	PFNA	0.0086	8.6	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluoropentanoic Acid	PFPA	0.038	38	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	Perfluoroundecanoic Acid	PFUnA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	PFECA B	PFECA B	0.0063	6.3	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	PFECA-A	PFECA-A	0.0063	6.3	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	PFECA-F	PFECA-F	0.0063	6.3	N	U		LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	PFOS	PFOS	0.0078	7.8	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
2H23GW-AE11-MW01-A	AE11-MW01	10/11/2023	PFOA	PFOA	16	16000	Y			LIQUID	FS	Groundwater	39.26896286	-81.6620865
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Hfpo Dimer Acid	HFPO-DA	0.71	710	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	PFOA	PFOA	0.56	560	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q19GW-AM07-PW01-A	AM07-PW01	03/22/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U,I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	PFOA	PFOA	0.83	830	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
2Q19GW-AM07-PW01-A	AM07-PW01	06/13/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluoroheptanoic Acid	PFHpA	0.032	32	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorohexanoic Acid	PFHxA	0.027	27	Y	I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	PFOA	PFOA	0.94	940	Y	I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
3Q19GW-AM07-PW01-A	AM07-PW01	09/16/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Hfpo Dimer Acid	HFPO-DA	0.30	300	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U,I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	PFOA	PFOA	0.73	730	Y	I		Liquid	FS	Drinking Water	39.27197647	-81.6571426
4Q19GW-AM07-PW01-A	AM07-PW01	12/09/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01-A	AM07-PW01	03/10/2020	PFOA	PFOA	0.47	470	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1Q20GW-AM07-PW01

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
2H21GW-AM07-PW01-A	AM07-PW01	09/07/2021	Perfluorohexanoic Acid	PFHxA	0.028	28	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H21GW-AM07-PW01-A	AM07-PW01	09/07/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H21GW-AM07-PW01-A	AM07-PW01	09/07/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H21GW-AM07-PW01-A	AM07-PW01	09/07/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H21GW-AM07-PW01-A	AM07-PW01	09/07/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H21GW-AM07-PW01-A	AM07-PW01	09/07/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H21GW-AM07-PW01-A	AM07-PW01	09/07/2021	PFOA	PFOA	0.78	780	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H21GW-AM07-PW01-A	AM07-PW01	09/07/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	PFOA	PFOA	0.69	690	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H22GW-AM07-PW01-A	AM07-PW01	03/10/2022	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Hfpo Dimer Acid	HFPO-DA	0.44	440	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,*+	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	PFOA	PFOA	0.66	660	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H22GW-AM07-PW01-A	AM07-PW01	10/17/2022	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	DONA	DONA	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Hfpo Dimer Acid	HFPO-DA	0.14	140	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0030	3	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorobutanoic Acid	PFBA	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluoroheptanoic Acid	PFHpA	0.0029	2.9	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorohexanoic Acid	PFHxA	0.0031	3.1	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	PFECA B	PFECA B	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	PFOA	PFOA	0.24	240	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
1H23GW-AM07-PW01-A	AM07-PW01	05/08/2023	PFOS	PFOS	0.0042	4.2	Y			Liquid	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0072	7.2	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	DONA	DONA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Hfpo Dimer Acid	HFPO-DA	0.083	83	Y			LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0027	2.7	Y			LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorobutanoic Acid	PFBA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluoroheptanoic Acid	PFHpA	0.0028	2.8	Y			LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorohexanoic Acid	PFHxA	0.0029	2.9	Y			LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U,I		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluoropentanoic Acid	PFPA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	PFOA	PFOA	0.22	220	Y			LIQUID	FS	Drinking Water	39.27197647	-81.6571426
2H23DW-AM07-PW01-A	AM07-PW01	10/10/2023	PFOS	PFOS	0.0034	3.4	Y			LIQUID	FS	Drinking Water	39.27197647	-81.6571426
091818A-WELL 331	AO08-PW01	09/18/2018	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
091818-WELL 331	AO08-PW01	09/18/2018	PFOA	PFOA	0.44	440	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PFOA	PFOA	0.74	740	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.00044	0.44	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.00089	0.89	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	Hfpo Dimer Acid	HFPO-DA	0.013	13	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	Perfluorodecanoic Acid	PFDA	0.0008	0.8	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.00053	0.53	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00027	0.27	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.0081	8.1	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	Perfluorononanoic Acid	PFNA	0.0011	1.1	Y	J	J	Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0011	1.1	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PFOS	PFOS	0.0072	7.2	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	Perfluorobutanoic Acid	PFBA	0.0059	5.9	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.00089	0.89	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0027	2.7	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00034	0.34	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
EAST_FIELD_WELL_331-0918	AO08-PW01	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
051519A-WELL 331	AO08-PW01	05/15/2019	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
051519-WELL 331	AO08-PW01	05/15/2019	PFOA	PFOA	1.6	1600	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
053019A-WELL 331	AO08-PW01	05/30/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
053019-WELL 331	AO08-PW01	05/30/2019	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
061719A-WELL 331	AO08-PW01	06/17/2019	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
061719-WELL 331	AO08-PW01	06/17/2019	PFOA	PFOA	1.5	1500	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
062519A-WELL 331	AO08-PW01	06/25/2019	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
062519-WELL 331	AO08-PW01	06/25/2019	PFOA	PFOA	1.4	1400	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
101619A-WELL 331	AO08-PW01	10/16/2019	Hfpo Dimer Acid	HFPO-DA	0.61	610	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
101619-WELL 331	AO08-PW01	10/16/2019	PFOA	PFOA	0.74	740	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
121119A-WELL 331	AO08-PW01	12/11/2019	Hfpo Dimer Acid	HFPO-DA	0.50	500	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
121119-WELL 331	AO08-PW01	12/11/2019	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
011020A-WELL 331	AO08-PW01	01/10/2020	Hfpo Dimer Acid	HFPO-DA	0.98	980	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
011020-WELL 331	AO08-PW01	01/10/2020	PFOA	PFOA	0.93	930	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
012120A-WELL 331	AO08-PW01	01/21/2020	Hfpo Dimer Acid	HFPO-DA	0.83	830	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
012120-WELL 331	AO08-PW01	01/21/2020	PFOA	PFOA	0.78	780	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
020420A-WELL 331	AO08-PW01	02/04/2020	Hfpo Dimer Acid	HFPO-DA	0.85	850	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
020420-WELL 331	AO08-PW01	02/04/2020	PFOA	PFOA	0.96	960	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
022120A-WELL 331	AO08-PW01	02/21/2020	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y	*	J	Liquid	FS	Drinking Water	39.271862	-81.6552
022120-WELL 331	AO08-PW01	02/21/2020	PFOA	PFOA	0.17	170	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
030320A-WELL 331	AO08-PW01	03/03/2020	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
030320-WELL 331	AO08-PW01	03/03/2020	PFOA	PFOA	1.0	1000	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
031720A-WELL 331	AO08-PW01	03/17/2020	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
031720-WELL 331	AO08-PW01	03/17/2020	PFOA	PFOA	0.97	970	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
041620-WELL 331	AO08-PW01	04/16/2020	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
041620-WELL 331	AO08-PW01	04/16/2020	PFOA	PFOA	0.78	780	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
043020-WELL 331	AO08-PW01	04/30/2020	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
043020-WELL 331	AO08-PW01	04/30/2020	PFOA	PFOA	0.91	910	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
052120-WELL 331	AO08-PW01	05/21/2020	Hfpo Dimer Acid	HFPO-DA	0.46	460	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
052120-WELL 331	AO08-PW01	05/21/2020	PFOA	PFOA	0.76	760	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
062320-WELL 331	AO08-PW01	06/23/2020	Hfpo Dimer Acid	HFPO-DA	0.31	310	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
062320-WELL 331	AO08-PW01	06/23/2020	PFOA	PFOA	0.84	840	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
072220-WELL 331	AO08-PW01	07/22/2020	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
072220-WELL 331	AO08-PW01	07/22/2020	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
092220-WELL 331	AO08-PW01	09/22/2020	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
092220-WELL 331	AO08-PW01	09/22/2020	PFOA	PFOA	1.3	1300	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
102220-WELL 331	AO08-PW01	10/22/2020	PFOA	PFOA	0.98	980	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
102220-WELL 331	AO08-PW01	10/22/2020	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
121520-WELL 331	AO08-PW01	12/15/2020	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
121520-WELL 331	AO08-PW01	12/15/2020	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
011921-WELL 331	AO08-PW01	01/19/2021	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
011921-WELL 331	AO08-PW01	01/19/2021	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
021721-WELL 331	AO08-PW01	02/17/2021	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
021721-WELL 331	AO08-PW01	02/17/2021	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
031621-WELL 331	AO08-PW01	03/16/2021	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
031621-WELL 331	AO08-PW01	03/16/2021	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
042721-WELL 331	AO08-PW01	04/27/2021	Hfpo Dimer Acid	HFPO-DA	0.038	38	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
042721-WELL 331	AO08-PW01	04/27/2021	PFOA	PFOA	0.25	250	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
052021-WELL 331	AO08-PW01	05/20/2021	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
052021-WELL 331	AO08-PW01	05/20/2021	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
072121-WELL 331	AO08-PW01	07/21/2021	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
072121-WELL 331	AO08-PW01	07/21/2021	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
092121-WELL 331	AO08-PW01	09/21/2021	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
092121-WELL 331	AO08-PW01	09/21/2021	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
101821-WELL 331	AO08-PW01	10/18/2021	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
101821-WELL 331	AO08-PW01	10/18/2021	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
12022-WELL 331	AO08-PW01	01/20/2022	Hfpo Dimer Acid	HFPO-DA	3.5	3500	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
12022-WELL 331	AO08-PW01	01/20/2022	PFOA	PFOA	1.4	1400	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
21822-WELL 331	AO08-PW01	02/18/2022	PFOA	PFOA	1.5	1500	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
21822-WELL 331	AO08-PW01	02/18/2022	Hfpo Dimer Acid	HFPO-DA	3.4	3400	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
31822-WELL 331	AO08-PW01	03/18/2022	PFOA	PFOA	1.7	1700	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
31822-WELL 331	AO08-PW01	03/18/2022	Hfpo Dimer Acid	HFPO-DA	3.8	3800	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
41922-WELL 331	AO08-PW01	04/19/2022	PFOA	PFOA	1.6	1600	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
41922-WELL 331	AO08-PW01	04/19/2022	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
51722-WELL 331	AO08-PW01	05/17/2022	PFOA	PFOA	2.0	2000	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
51722-WELL 331	AO08-PW01	05/17/2022	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62222-WELL 331	AO08-PW01	06/22/2022	PFOA	PFOA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62222-WELL 331	AO08-PW01	06/22/2022	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
71822-WELL 331	AO08-PW01	07/18/2022	PFOA	PFOA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
71822-WELL 331	AO08-PW01	07/18/2022	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
81522-WELL 331	AO08-PW01	08/15/2022	PFOA	PFOA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
81522-WELL 331	AO08-PW01	08/15/2022	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
91922-WELL 331	AO08-PW01	09/19/2022	PFOA	PFOA	2.0	2000	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
91922-WELL 331	AO08-PW01	09/19/2022	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
101922-WELL 331	AO08-PW01	10/19/2022	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
101922-WELL 331	AO08-PW01	10/19/2022	PFOA	PFOA	2.0	2000	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
111422-WELL 331	AO08-PW01	11/14/2022	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y	H		LIQUID	FS	Drinking Water	39.271862	-81.6552
111422-WELL 331	AO08-PW01	11/14/2022	PFOA	PFOA	2.0	2000	Y	H		LIQUID	FS	Drinking Water	39.271862	-81.6552
121922-WELL 331	AO08-PW01	12/19/2022	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
121922-WELL 331	AO08-PW01	12/19/2022	PFOA	PFOA	1.5	1500	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
22123-WELL 331	AO08-PW01	02/21/2023	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
22123-WELL 331	AO08-PW01	02/21/2023	PFOA	PFOA	1.4	1400	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluoroheptanoic Acid	PFHpA	0.047	47	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluorononanoic Acid	PFNA	0.0031	3.1	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	PFOS	PFOS	0.0065	6.5	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluorohexanoic Acid	PFHxA	0.064	64	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.16	160	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0099	9.9	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	DONA	DONA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
32023-WELL 331	AO08-PW01	03/20/2023	PFOA	PFOA	1.2	1200	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	PFOS	PFOS	0.0063	6.3	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluorononanoic Acid	PFNA	0.0033	3.3	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluoroheptanoic Acid	PFHpA	0.045	45	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluorohexanoic Acid	PFHxA	0.057	57	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.16	160	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0064	6.4	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
41723-WELL 331	AO08-PW01	04/17/2023	PFOA	PFOA	1.5	1500	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluoroheptanoic Acid	PFHpA	0.051	51	Y		J	LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluorononanoic Acid	PFNA	0.0029	2.9	Y		J	LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	PFOS	PFOS	0.0062	6.2	Y		J	LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluorohexanoic Acid	PFHxA	0.063	63	Y		J	LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.14	140	Y		J	LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0088	8.8	Y		J	LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.271862	-81.6552
52223-WELL 331	AO08-PW01	05/22/2023	PFOA	PFOA	1.4	1400	Y			LIQUID	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0091	9.1	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluoroheptanoic Acid	PFHpA	0.042	42	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.15	150	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluorohexanoic Acid	PFHxA	0.056	56	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluorononanoic Acid	PFNA	0.0035	3.5	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluorotridecanoic Acid	PFTriA	0.0021	2.1	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	PFOS	PFOS	0.0070	7	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
62123-WELL 331	AO08-PW01	06/21/2023	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271862	-81.6552
090518A-WELL 332	AQ09-PW01	09/05/2018	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
090518-WELL 332	AQ09-PW01	09/05/2018	PFOA	PFOA	2.5	2500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
091818A-WELL 332	AQ09-PW01	09/18/2018	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
091818-WELL 332	AQ09-PW01	09/18/2018	PFOA	PFOA	1.8	1800	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.001	1	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.00034	0.34	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0047	4.7	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00085	0.85	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00085	0.85	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FI

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00085	0.85	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	NaDONA	NaDONA	0.00026	0.26	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00026	0.26	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.00026	0.26	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0026	2.6	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_332-0918	AQ09-PW01	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.00043	0.43	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
100118-WELL 332	AQ09-PW01	10/01/2018	PFOA	PFOA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
GC100118A-WELL 332	AQ09-PW01	10/01/2018	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
112618A-WELL 332	AQ09-PW01	11/26/2018	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
112618-WELL 332	AQ09-PW01	11/26/2018	PFOA	PFOA	2.6	2600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
121118A-WELL 332	AQ09-PW01	12/11/2018	Hfpo Dimer Acid	HFPO-DA	4.3	4300	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
121118-WELL 332	AQ09-PW01	12/11/2018	PFOA	PFOA	2.1	2100	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
122718A-WELL 332	AQ09-PW01	12/27/2018	Hfpo Dimer Acid	HFPO-DA	3.6	3600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
122718-WELL 332	AQ09-PW01	12/27/2018	PFOA	PFOA	1.7	1700	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
010819A-WELL 332	AQ09-PW01	01/08/2019	Hfpo Dimer Acid	HFPO-DA	3.9	3900	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
010819-WELL 332	AQ09-PW01	01/08/2019	PFOA	PFOA	2.8	2800	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
012119A-WELL 332	AQ09-PW01	01/21/2019	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
012119-WELL 332	AQ09-PW01	01/21/2019	PFOA	PFOA	2.8	2800	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
020819A-WELL 332	AQ09-PW01	02/08/2019	Hfpo Dimer Acid	HFPO-DA	3.6	3600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
020819-WELL 332	AQ09-PW01	02/08/2019	PFOA	PFOA	3.1	3100	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
022019A-WELL 332	AQ09-PW01	02/20/2019	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
022019-WELL 332	AQ09-PW01	02/20/2019	PFOA	PFOA	2.7	2700	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
030419A-WELL 332	AQ09-PW01	03/04/2019	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
030419-WELL 332	AQ09-PW01	03/04/2019	PFOA	PFOA	2.9	2900	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
031819A-WELL 332	AQ09-PW01	03/18/2019	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
031819-WELL 332	AQ09-PW01	03/18/2019	PFOA	PFOA	3.0	3000	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	PFOA	PFOA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorobutanoic Acid	PFBA	0.021	21	Y		J	Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluoroheptanoic Acid	PFHpA	0.074	74	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorohexanoic Acid	PFHxA	0.033	33	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
1Q19GW-WELL 332	AQ09-PW01	03/21/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,F1	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
040219A-WELL 332	AQ09-PW01	04/02/2019	Hfpo Dimer Acid	HFPO-DA	4.0	4000	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
040219-WELL 332	AQ09-PW01	04/02/2019	PFOA	PFOA	3.2	3200	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
041719A-WELL 332	AQ09-PW01	04/17/2019	Hfpo Dimer Acid	HFPO-DA	4.0	4000	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
041719-WELL 332	AQ09-PW01	04/17/2019	PFOA	PFOA	2.8	2800	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
051519A-WELL 332	AQ09-PW01	05/15/2019	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
051519-WELL 332	AQ09-PW01	05/15/2019	PFOA	PFOA	2.0	2000	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
053019A-WELL 332	AQ09-PW01	05/30/2019	Hfpo Dimer Acid	HFPO-DA	2.7	2700	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
053019-WELL 332	AQ09-PW01	05/30/2019	PFOA	PFOA	2.6	2600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	PFOS	PFOS	0.030	30	N	U,H,I		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U,H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,H,I		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluoroheptanoic Acid	PFHpA	0.085	85	Y	H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,H,I		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U,H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y	H	J	Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	PFOA	PFOA	2.7	2700	Y	H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U,H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorohexanoic Acid	PFHxA	0.035	35	Y	H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U,H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U,H		Liquid	FS	Drinking Water	39.271469	-81.6538
2Q19GW-WELL 332	AQ09-PW01	06/10/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,H,I		Liquid	FS	Drinking Water	39.271469	-81.6538
061719A-WELL 332	AQ09-PW01	06/17/2019	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
061719-WELL 332	AQ09-PW01	06/17/2019	PFOA	PFOA	2.5	2500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
062519A-WELL 332	AQ09-PW01	06/25/2019	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
062519-WELL 332	AQ09-PW01	06/25/2019	PFOA	PFOA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
071219A-WELL 332	AQ09-PW01	07/12/2019	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
071219-WELL 332	AQ09-PW01	07/12/2019	PFOA	PFOA	2.4	2400	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
072319A-WELL 332	AQ09-PW01	07/23/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
072319-WELL 332	AQ09-PW01	07/23/2019	PFOA	PFOA	3.4	3400	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
080919A-WELL 332	AQ09-PW01	08/09/2019	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
080919-WELL 332	AQ09-PW01	08/09/2019	PFOA	PFOA	2.3	2300	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
081919A-WELL 332	AQ09-PW01	08/19/2019	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
081919-WELL 332	AQ09-PW01	08/19/2019	PFOA	PFOA	2.6	2600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
091319A-WELL 332	AQ09-PW01	09/13/2019	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
091319-WELL 332	AQ09-PW01	09/13/2019	PFOA	PFOA	2.3	2300	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluoroheptanoic Acid	PFHpA	0.072	72	Y	I,F1	J	LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	PFOA	PFOA	2.6	2600	Y	I		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorohexanoic Acid	PFHxA	0.036	36	Y	I		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
3Q19GW-WELL 332	AQ09-PW01	09/16/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
092319A-WELL 332	AQ09-PW01	09/23/2019	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
092319-WELL 332	AQ09-PW01	09/23/2019	PFOA	PFOA	2.6	2600	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
101619A-WELL 332	AQ09-PW01	10/16/2019	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
101619-WELL 332	AQ09-PW01	10/16/2019	PFOA	PFOA	2.3	2300	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
102919A-WELL 332	AQ09-PW01	10/29/2019	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
102919-WELL 332	AQ09-PW01	10/29/2019	PFOA	PFOA	2.6	2600	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
111519A-WELL 332	AQ09-PW01	11/15/2019	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
111519-WELL 332	AQ09-PW01	11/15/2019	PFOA	PFOA	2.5	2500	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
112519A-WELL 332	AQ09-PW01	11/25/2019	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
112519-WELL 332	AQ09-PW01	11/25/2019	PFOA	PFOA	4.3	4300	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluoroheptanoic Acid	PFHpA	0.083	83	Y		J	Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	PFOS	PFOS	0.030	30	N	U,I,F1		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorobutanoic Acid	PFBA	0.027	27	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	PFOA	PFOA	2.8	2800	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorohexanoic Acid	PFHxA	0.049	49	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q19GW-WELL 332	AQ09-PW01	12/09/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
121119A-WELL 332	AQ09-PW01	12/11/2019	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
121119-WELL 332	AQ09-PW01	12/11/2019	PFOA	PFOA	4.7	4700	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
122619A-WELL 332	AQ09-PW01	12/26/2019	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
122619-WELL 332	AQ09-PW01	12/26/2019	PFOA	PFOA	2.5	2500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
011020A-WELL 332	AQ09-PW01	01/10/2020	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
011020-WELL 332	AQ09-PW01	01/10/2020	PFOA	PFOA	2.7	2700	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
012120A-WELL 332	AQ09-PW01	01/21/2020	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
012120-WELL 332	AQ09-PW01	01/21/2020	PFOA	PFOA	2.4	2400	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
020420A-WELL 332	AQ09-PW01	02/04/2020	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
020420-WELL 332	AQ09-PW01	02/04/2020	PFOA	PFOA	2.6	2600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
022120A-WELL 332	AQ09-PW01	02/21/2020	Hfpo Dimer Acid	HFPO-DA	2.7	2700	Y	*	J	Liquid	FS	Drinking Water	39.271469	-81.6538
022120-WELL 332	AQ09-PW01	02/21/2020	PFOA	PFOA	2.5	2500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
030320A-WELL 332	AQ09-PW01	03/03/2020	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
030320-WELL 332	AQ09-PW01	03/03/2020	PFOA	PFOA	2.8	2800	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluoroheptanoic Acid	PFHpA	0.080	80	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorobutanoic Acid	PFBA	0.025	25	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Hfpo Dimer Acid	HFPO-DA	3.1	3100	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	PFOA	PFOA	2.5	2500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorohexanoic Acid	PFHxA	0.061	61	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1Q20GW-WELL 332	AQ09-PW01	03/10/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
031720A-WELL 332	AQ09-PW01	03/17/2020	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
031720-WELL 332	AQ09-PW01	03/17/2020	PFOA	PFOA	2.6	2600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
041620-WELL 332	AQ09-PW01	04/16/2020	PFOA	PFOA	2.3	2300	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
041620-WELL 332	AQ09-PW01	04/16/2020	Hfpo Dimer Acid	HFPO-DA	3.1	3100	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
052120-WELL 332	AQ09-PW01	05/21/2020	PFOA	PFOA	1.6	1600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
052120-WELL 332	AQ

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Hfpo Dimer Acid	HFPO-DA	0.47	470	Y		J	Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	PFOA	PFOA	0.51	510	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	PFOS	PFOS	0.030	30	N	U,F1		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U,F1		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorobutane Sulfonic Acid	PFBS	0.041	41	Y		J	Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332	AQ09-PW01	10/30/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	PFOA	PFOA	0.48	480	Y			Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Hfpo Dimer Acid	HFPO-DA	0.46	460	Y	*,*1	J	Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Drinking Water	39.271469	-81.6538
4Q20GW-WELL 332-D	AQ09-PW01	10/30/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Drinking Water	39.271469	-81.6538
121520-WELL 332	AQ09-PW01	12/15/2020	Hfpo Dimer Acid	HFPO-DA	0.73	730	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
121520-WELL 332	AQ09-PW01	12/15/2020	PFOA	PFOA	0.66	660	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
011921-WELL 332	AQ09-PW01	01/19/2021	PFOA	PFOA	0.79	790	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
011921-WELL 332	AQ09-PW01	01/19/2021	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
021721-WELL 332	AQ09-PW01	02/17/2021	PFOA	PFOA	1.9	1900	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
021721-WELL 332	AQ09-PW01	02/17/2021	Hfpo Dimer Acid	HFPO-DA	4.3	4300	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
031621-WELL 332	AQ09-PW01	03/16/2021	PFOA	PFOA	2.2	2200	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
031621-WELL 332	AQ09-PW01	03/16/2021	Hfpo Dimer Acid	HFPO-DA	3.9	3900	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluoroheptanoic Acid	PFHpA	0.059	59	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorobutanoic Acid	PFBA	0.022	22	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	PFOA	PFOA	1.6	1600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Hfpo Dimer Acid	HFPO-DA	3.5	3500	Y		J	Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorohexanoic Acid	PFHxA	0.045	45	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.054	54	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
1H21GW-WELL 332	AQ09-PW01	03/23/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Drinking Water	39.271469	-81.6538
042721-WELL 332	AQ09-PW01	04/27/2021	PFOA	PFOA	1.6	1600	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
042721-WELL 332	AQ09-PW01	04/27/2021	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
072121-WELL 332	AQ09-PW01	07/21/2021	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
072121-WELL 332	AQ09-PW01	07/21/2021	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
081721-WELL 332	AQ09-PW01	08/17/2021	Hfpo Dimer Acid	HFPO-DA	0.68	680	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
081721-WELL 332	AQ09-PW01	08/17/2021	PFOA	PFOA	0.79	790	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	PFOA	PFOA	0.53	530	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Hfpo Dimer Acid	HFPO-DA	0.44	440	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
2H21GW-WELL 332	AQ09-PW01	09/07/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
092121-WELL 332	AQ09-PW01	09/21/2021	PFOA	PFOA	0.59	590	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
092121-WELL 332	AQ09-PW01	09/21/2021	Hfpo Dimer Acid	HFPO-DA	0.41	410	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
101821-WELL 332	AQ09-PW01	10/18/2021	PFOA	PFOA	0.65	650	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
101821-WELL 332	AQ09-PW01	10/18/2021	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
12022-WELL 332	AQ09-PW01	01/20/2022	Hfpo Dimer Acid	HFPO-DA	3.9	3900	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
12022-WELL 332	AQ09-PW01	01/20/2022	PFOA	PFOA	1.5	1500	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
41922-WELL 332	AQ09-PW01	04/19/2022	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
41922-WELL 332	AQ09-PW01	04/19/2022	PFOA	PFOA	0.17	170	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
51722-WELL 332	AQ09-PW01	05/17/2022	Hfpo Dimer Acid	HFPO-DA	0.0028	2.8	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
51722-WELL 332	AQ09-PW01	05/17/2022	PFOA	PFOA	0.14	140	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
62222-WELL 332	AQ09-PW01	06/22/2022	Hfpo Dimer Acid	HFPO-DA	0.0077	7.7	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
62222-WELL 332	AQ09-PW01	06/22/2022	PFOA	PFOA	0.16	160	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
71822-WELL 332	AQ09-PW01	07/18/2022	Hfpo Dimer Acid	HFPO-DA	0.010	10	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
71822-WELL 332	AQ09-PW01	07/18/2022	PFOA	PFOA	0.17	170	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
81522-WELL 332	AQ09-PW01	08/15/2022	Hfpo Dimer Acid	HFPO-DA	0.11	110	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
81522-WELL 332	AQ09-PW01	08/15/2022	PFOA	PFOA	0.64	640	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
91922-WELL 332	AQ09-PW01	09/19/2022	Hfpo Dimer Acid	HFPO-DA	0.54	540	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
91922-WELL 332	AQ09-PW01	09/19/2022	PFOA	PFOA	1.0	1000	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
101922-WELL 332	AQ09-PW01	10/19/2022	Hfpo Dimer Acid	HFPO-DA	0.46	460	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
101922-WELL 332	AQ09-PW01	10/19/2022	PFOA	PFOA	0.77	770	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
11623-WELL 332	AQ09-PW01	01/16/2023	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
11623-WELL 332	AQ09-PW01	01/16/2023	PFOA	PFOA	1.8	1800	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
22123-WELL 332	AQ09-PW01	02/21/2023	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
22123-WELL 332	AQ09-PW01	02/21/2023	PFOA	PFOA	2.7	2700	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluoroundecanoic Acid	PFUnA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	PFOS	PFOS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluorononanoic Acid	PFNA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluoroheptanoic Acid	PFHpA	0.072	72	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	PFOA	PFOA	3.0	3000	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluorodecanoic Acid	PFDA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluorohexanoic Acid	PFHxA	0.045	45	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluorotridecanoic Acid	PFTriA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	DONA	DONA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	Perfluorododecanoic Acid	PFDoA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
32023-WELL 332	AQ09-PW01	03/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluorodecanoic Acid	PFDA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	PFOA	PFOA	2.8	2800	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluorononanoic Acid	PFNA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluoroheptanoic Acid	PFHpA	0.057	57	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	PFOS	PFOS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluoroundecanoic Acid	PFUnA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluorohexanoic Acid	PFHxA	0.039	39	Y			LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluorotridecanoic Acid	PFTriA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	DONA	DONA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	Perfluorododecanoic Acid	PFDoA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
41723-WELL 332	AQ09-PW01	04/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.018	18	N	U		LIQUID	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	PFECA B	PFECA B	0.0030	3	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluorononanoic Acid	PFNA	0.0023	2.3	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluoroheptanoic Acid	PFHpA	0.030	30	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	PFECA-A	PFECA-A	0.0030	3	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	PFOS	PFOS	0.0042	4.2	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluorobutanoic Acid	PFBA	0.014	14	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	PFECA-F	PFECA-F	0.0030	3	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	PFOA	PFOA	3.2	3200	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
1H23GW-WELL 332	AQ09-PW01	05/09/2023	Perfluoropentanoic Acid	PFPA	0.0063

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
62123-WELL 332	AQ09-PW01	06/21/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
62123-WELL 332	AQ09-PW01	06/21/2023	Perfluoroheptanoic Acid	PFHpA	0.063	63	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
62123-WELL 332	AQ09-PW01	06/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.012	12	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
62123-WELL 332	AQ09-PW01	06/21/2023	Perfluorohexanoic Acid	PFHxA	0.040	40	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
62123-WELL 332	AQ09-PW01	06/21/2023	Perfluorononanoic Acid	PFNA	0.0025	2.5	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
62123-WELL 332	AQ09-PW01	06/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
62123-WELL 332	AQ09-PW01	06/21/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
62123-WELL 332	AQ09-PW01	06/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.271469	-81.6538
62123-WELL 332	AQ09-PW01	06/21/2023	PFOA	PFOA	2.3	2300	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
62123-WELL 332	AQ09-PW01	06/21/2023	PFOS	PFOS	0.0061	6.1	Y			Liquid	FS	Drinking Water	39.271469	-81.6538
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.00088	0.88	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0018	1.8	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00088	0.88	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0011	1.1	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.00088	0.88	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00088	0.88	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Hfpo Dimer Acid	HFPO-DA	0.023	23	Y			Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	NaDONA	NaDONA	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00088	0.88	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0026	2.6	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0026	2.6	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00088	0.88	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.0033	3.3	Y			Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorobutanoic Acid	PFBA	0.0057	5.7	Y			Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.00053	0.53	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorodecanoic Acid	PFDA	0.00079	0.79	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.00044	0.44	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.0056	5.6	Y			Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.01	10	Y			Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorohexanoic Acid	PFHxA	0.013	13	Y			Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.00053	0.53	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorononanoic Acid	PFNA	0.001	1	Y	J	J	Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.00044	0.44	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.00044	0.44	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluoropentanoic Acid	PFPA	0.0034	3.4	Y	J	J	Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluorotridecanoic Acid	PFTriA	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFOA	PFOA	0.28	280	Y			Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PFOS	PFOS	0.0062	6.2	Y			Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
EAST_FIELD_WELL_335-0918	AX13-PW01	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.26995468	-81.6482239
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	PFOA	PFOA	6.9	6900	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluoroheptanoic Acid	PFHpA	0.19	190	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorobutanoic Acid	PFBA	0.037	37	Y		J	Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Hfpo Dimer Acid	HFPO-DA	0.021	21	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorohexanoic Acid	PFHxA	0.063	63	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A	D08-MW01	3/25/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Hfpo Dimer Acid	HFPO-DA	0.021	21	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	PFOA	PFOA	7.3	7300	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorobutanoic Acid	PFBA	0.039	39	Y		J	Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluoroheptanoic Acid	PFHpA	0.17	170	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorohexanoic Acid	PFHxA	0.066	66	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q19GW-D08-MW01-A-D	D08-MW01	3/25/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	PFOA	PFOA	9.3	9300	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Hfpo Dimer Acid	HFPO-DA	0.017	17	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U,I		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluoroheptanoic Acid	PFHpA	0.26	260	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorobutanoic Acid	PFBA	0.041	41	Y		J	Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,I		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorohexanoic Acid	PFHxA	0.083	83	Y		J	Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,I		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A	D08-MW01	6/13/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorobutanoic Acid	PFBA	0.042	42	Y		J	Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluoroheptanoic Acid	PFHpA	0.26	260	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,I		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U,I		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Hfpo Dimer Acid	HFPO-DA	0.016	16	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	PFOA	PFOA	9.1	9100	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorohexanoic Acid	PFHxA	0.082	82	Y		J	Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q19GW-D08-MW01-A-D	D08-MW01	6/13/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,I		Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	PFOA	PFOA	7.8	7800	Y	I		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Hfpo Dimer Acid	HFPO-DA	0.012	12	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluoroheptanoic Acid	PFHpA	0.19	190	Y	I		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorobutanoic Acid	PFBA	0.037	37	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorohexanoic Acid	PFHxA	0.069	69	Y	I		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A	D08-MW01	9/17/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A-D	D08-MW01	9/17/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A-D	D08-MW01	9/17/2019	Perfluorobutanoic Acid	PFBA	0.036	36	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A-D	D08-MW01	9/17/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A-D	D08-MW01	9/17/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A-D	D08-MW01	9/17/2019	Perfluoroheptanoic Acid	PFHpA	0.20	200	Y	I		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A-D	D08-MW01	9/17/2019	Hfpo Dimer Acid	HFPO-DA	0.013	13	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
3Q19GW-D08-MW01-A-D	D08-MW01	9/17/2019	PFOA	PFOA	7.8

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1Q20GW-D08-MW01-A	D08-MW01	3/11/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A	D08-MW01	3/11/2020	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A	D08-MW01	3/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A	D08-MW01	3/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A	D08-MW01	3/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A	D08-MW01	3/11/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluoroheptanoic Acid	PFHpA	0.23	230	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorobutanoic Acid	PFBA	0.047	47	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	PFOS	PFOS	0.030	30	N	U,I		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Hfpo Dimer Acid	HFPO-DA	0.021	21	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	PFOA	PFOA	8.3	8300	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1Q20GW-D08-MW01-A-D	D08-MW01	3/11/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	PFOA	PFOA	9.8	9800	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorobutanoic Acid	PFBA	0.048	48	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluoroheptanoic Acid	PFHpA	0.26	260	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Hfpo Dimer Acid	HFPO-DA	0.021	21	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A	D08-MW01	5/29/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Hfpo Dimer Acid	HFPO-DA	0.023	23	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	PFOA	PFOA	8.8	8800	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluoroheptanoic Acid	PFHpA	0.23	230	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorobutanoic Acid	PFBA	0.042	42	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
2Q20GW-D08-MW01-A-D	D08-MW01	5/29/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	PFOA	PFOA	7.0	7000	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorobutanoic Acid	PFBA	0.043	43	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluoroheptanoic Acid	PFHpA	0.17	170	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Hfpo Dimer Acid	HFPO-DA	0.018	18	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorohexanoic Acid	PFHxA	0.070	70	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A	D08-MW01	8/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Hfpo Dimer Acid	HFPO-DA	0.017	17	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	PFOA	PFOA	7.3	7300	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluoroheptanoic Acid	PFHpA	0.17	170	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorobutanoic Acid	PFBA	0.043	43	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorohexanoic Acid	PFHxA	0.072	72	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
3Q20GW-D08-MW01-A-D	D08-MW01	8/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y		J	Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorobutanoic Acid	PFBA	0.035	35	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Hfpo Dimer Acid	HFPO-DA	0.015	15	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorohexanoic Acid	PFHxA	0.067	67	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A	D08-MW01	11/4/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Hfpo Dimer Acid	HFPO-DA	0.014	14	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	PFOA	PFOA	6.6	6600	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorobutanoic Acid	PFBA	0.035	35	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y		J	Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorohexanoic Acid	PFHxA	0.068	68	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
4Q20GW-D08-MW01-A-D	D08-MW01	11/4/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluoroheptanoic Acid	PFHpA	0.23	230	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorobutanoic Acid	PFBA	0.047	47	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Hfpo Dimer Acid	HFPO-DA	0.028	28	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorohexanoic Acid	PFHxA	0.082	82	Y			Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A	D08-MW01	3/24/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluoroheptanoic Acid	PFHpA	0.24	240	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorobutanoic Acid	PFBA	0.045	45	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Hfpo Dimer Acid	HFPO-DA	0.028	28	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorohexanoic Acid	PFHxA	0.085	85	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H21GW-D08-MW01-A-D	D08-MW01	3/24/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
2H21GW-D08-MW01-A	D08-MW01	9/10/2021	Hfpo Dimer Acid	HFPO-DA	0.020	20	Y		J	Liquid	FS	Groundwater	39.26801682	-81.6813965
2H21GW-D08-MW01-A	D08-MW01	9/10/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
2H21GW-D08-MW01-A	D08-MW01	9/10/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
2H21GW-D08-MW01-A	D08-MW01	9/10/2021	Perfluoroheptanoic Acid	PFHpA	0.27	270	Y		J	Liquid	FS	Groundwater	39.26801682	-81.6813965
2H21GW-D08-MW01-A	D08-MW01	9/10/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26801682	-81.6813965
2H21GW-D08-MW01-A	D08-MW01	9/10/2021	PFOS	PFOS	0.030	30	N	U	UJ	Liquid	FS	Groundwater

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluoroheptanoic Acid	PFHpA	0.24	240	Y		J	Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluorohexanoic Acid	PFHxA	0.074	74	Y			Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
1H22GW-D08-MW01-A-D	D08-MW01	3/10/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Hfpo Dimer Acid	HFPO-DA	0.021	21	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluoroheptanoic Acid	PFHpA	0.18	180	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorobutanoic Acid	PFBA	0.060	60	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,*+	UJ	LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A	D08-MW01	10/17/2022	PFOA	PFOA	12	12000	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorobutanoic Acid	PFBA	0.056	56	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	PFOS	PFOS	0.030	30	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluoroheptanoic Acid	PFHpA	0.18	180	Y		J	LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Hfpo Dimer Acid	HFPO-DA	0.023	23	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	PFOA	PFOA	10	10000	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,*+	UJ	LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H22GW-D08-MW01-A-D	D08-MW01	10/17/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Hfpo Dimer Acid	HFPO-DA	0.036	36	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorobutanoic Acid	PFBA	0.050	50	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorononanoic Acid	PFNA	0.0058	5.8	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluoroheptanoic Acid	PFHpA	0.12	120	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluoropentanoic Acid	PFPA	0.020	20	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorohexanoic Acid	PFHxA	0.083	83	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0038	3.8	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A	D08-MW01	5/9/2023	PFOA	PFOA	12	12000	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorononanoic Acid	PFNA	0.0056	5.6	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorobutanoic Acid	PFBA	0.050	50	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	PFOA	PFOA	14	14000	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Hfpo Dimer Acid	HFPO-DA	0.037	37	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluoropentanoic Acid	PFPA	0.021	21	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorohexanoic Acid	PFHxA	0.080	80	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0044	4.4	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	Y			LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
1H23GW-D08-MW01-A-D	D08-MW01	5/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U	UJ	LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.78	780	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.78	780	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0078	7.8	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0062	6.2	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	DONA	DONA	0.0062	6.2	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	Hfpo Dimer Acid	HFPO-DA	0.028	28	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	Perfluorobutanoic Acid	PFBA	0.052	52	Y			LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26801682	-81.6813965
2H23GW-D08-MW01-A	D08-MW01	10/11/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26801682

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorobutanoic Acid	PFBA	0.04	40	Y		J	Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Hfpo Dimer Acid	HFPO-DA	0.043	43	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluoropentanoic Acid	PFPA	0.039	39	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorohexanoic Acid	PFHxA	0.071	71	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.17	170	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q19GW-E13-MW01-A	E13-MW01	3/25/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	PFOA	PFOA	3.3	3300	Y		J	Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Hfpo Dimer Acid	HFPO-DA	0.11	110	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,I		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluoroheptanoic Acid	PFHpA	0.096	96	Y	F1	J	Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorobutanoic Acid	PFBA	0.023	23	Y		J	Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,I		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluoropentanoic Acid	PFPA	0.034	34	Y		J	Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorohexanoic Acid	PFHxA	0.065	65	Y		J	Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.32	320	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q19GW-E13-MW01-A	E13-MW01	6/13/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	PFOA	PFOA	3.2	3200	Y	I		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Hfpo Dimer Acid	HFPO-DA	0.13	130	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluoroheptanoic Acid	PFHpA	0.12	120	Y	I,F1	J	LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorobutanoic Acid	PFBA	0.043	43	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluoropentanoic Acid	PFPA	0.077	77	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y	I		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.43	430	Y	I		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorobutane Sulfonic Acid	PFBS	0.030	30	Y	I		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
3Q19GW-E13-MW01-A	E13-MW01	9/17/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	PFOA	PFOA	3.1	3100	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Hfpo Dimer Acid	HFPO-DA	0.10	100	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorobutanoic Acid	PFBA	0.034	34	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluoroheptanoic Acid	PFHpA	0.12	120	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluoropentanoic Acid	PFPA	0.053	53	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorohexanoic Acid	PFHxA	0.096	96	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.44	440	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.025	25	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q19GW-E13-MW01-A	E13-MW01	12/10/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	PFOA	PFOA	2.9	2900	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Hfpo Dimer Acid	HFPO-DA	0.070	70	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorobutanoic Acid	PFBA	0.024	24	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluoroheptanoic Acid	PFHpA	0.092	92	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluoropentanoic Acid	PFPA	0.036	36	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorohexanoic Acid	PFHxA	0.066	66	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.53	530	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
1Q20GW-E13-MW01-A	E13-MW01	3/11/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	PFOA	PFOA	3.3	3300	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorobutanoic Acid	PFBA	0.028	28	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Hfpo Dimer Acid	HFPO-DA	0.091	91	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluoropentanoic Acid	PFPA	0.050	50	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorohexanoic Acid	PFHxA	0.097	97	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.60	600	Y		J	Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorobutane Sulfonic Acid	PFBS	0.024	24	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
2Q20GW-E13-MW01-A	E13-MW01	5/29/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	PFOA	PFOA	3.0	3000	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorobutanoic Acid	PFBA	0.034	34	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluoroheptanoic Acid	PFHpA	0.074	74	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Hfpo Dimer Acid	HFPO-DA	0.082	82	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluoropentanoic Acid	PFPA	0.042	42	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorohexanoic Acid	PFHxA	0.072	72	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.61	610	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.025	25	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
3Q20GW-E13-MW01-A	E13-MW01	8/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	PFOA	PFOA	2.8	2800	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorobutanoic Acid	PFBA	0.044	44	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	PFOS	PFOS	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Hfpo Dimer Acid	HFPO-DA	0.089	89	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluoropentanoic Acid	PFPA	0.065	65	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.57	570	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorobutane Sulfonic Acid	PFBS	0.038	38	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
4Q20GW-E13-MW01-A	E13-MW01	11/4/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,F1		Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U,F1		Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorobutanoic Acid	PFBA	0.045	45	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	PFOS	PFOS	0.030	30	N	U,F1		Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,F1		Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U,F1		Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Hfpo Dimer Acid	HFPO-DA	0.079	79	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,F1		Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluoropentanoic Acid	PFPA	0.050	50	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorohexanoic Acid	PFHxA	0.087	87	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.50	500	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorobutane Sulfonic Acid	PFBS	0.025	25	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,F1		Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U,F1		Liquid	FS	Groundwater	39.26507187	-81.6796494
1H21GW-E13-MW01-A	E13-MW01	3/24/2021	PFOA	PFOA	2.9	2900	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Hfpo Dimer Acid	HFPO-DA	0.12	120	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluoroheptanoic Acid	PFHpA	0.099	99	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluorobutanoic Acid	PFBA	0.031	31	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluoropentanoic Acid	PFPA	0.036	36	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluorohexanoic Acid	PFHxA	0.061	61	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.50	500	Y			Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26507187	-81.6796494
2H21GW-E13-MW01-A	E13-MW01	9/10/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluoroheptanoic Acid	PFHpA	0.066	66	Y		J	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.029	29	Y		J	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0065	6.5	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluoropentanoic Acid	PFPA	0.040	40	Y		J	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluorohexanoic Acid	PFHxA	0.069	69	Y		J	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.73	730	Y		J	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0081	8.1	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.011	11	Y		J	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0058	5.8	Y		J	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.041	41	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.041	41	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	DONA	DONA	0.0065	6.5	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0065	6.5	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0065	6.5	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0065	6.5	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
1H23GW-E13-MW01-A	E13-MW01	5/9/2023	PFOA	PFOA	3.4	3400	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0096	9.6	N	U,F1	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0096	9.6	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0096	9.6	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.024	24	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.024	24	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.012	12	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.060	60	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0096	9.6	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.060	60	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0096	9.6	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	DONA	DONA	0.0096	9.6	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Hfpo Dimer Acid	HFPO-DA	0.17	170	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0048	4.8	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.011	11	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorobutanoic Acid	PFBA	0.044	44	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0024	2.4	N	U,F1	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorodecanoic Acid	PFDA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0024	2.4	N	U,F1	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorododecanoic Acid	PFDoA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0066	6.6	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluoroheptanoic Acid	PFHpA	0.064	64	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.53	530	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorohexanoic Acid	PFHxA	0.067	67	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorononanoic Acid	PFNA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.022	22	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluoropentanoic Acid	PFPA	0.032	32	Y			LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0024	2.4	N	U	UJ	LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	Perfluoroundecanoic Acid	PFUnA	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	PFECA B	PFECA B	0.0048	4.8	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	PFECA-A	PFECA-A	0.0048	4.8	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	PFECA-F	PFECA-F	0.0048	4.8	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	PFOS	PFOS	0.0024	2.4	N	U		LIQUID	FS	Groundwater	39.26507187	-81.6796494
2H23GW-E13-MW01-A	E13-MW01	10/11/2023	PFOA	PFOA	3.0	3000	Y	F1,F2	J	LIQUID	FS	Groundwater	39.26507187	-81.6796494
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0076	7.6	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0076	7.6	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0076	7.6	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.019	19	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.019	19	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0095	9.5	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.047	47	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0076	7.6	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.047	47	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0076	7.6	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	DONA	DONA	0.0076	7.6	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Hfpo Dimer Acid	HFPO-DA	0.59	590	Y			Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0038	3.8	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0038	3.8	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0039	3.9	Y			Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorobutanoic Acid	PFBA	0.0096	9.6	Y			Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluoroheptanoic Acid	PFHpA	0.01	10	Y			Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.022	22	Y			Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorohexanoic Acid	PFHxA	0.013	13	Y			Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorononanesulfonic Acid	PFNS	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorooctane Sulfonamide	PFOSA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0028	2.8	Y			Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluoropentanoic Acid	PFPA	0.0048	4.8	Y	J	J	Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	PFECA B	PFECA B	0.0038	3.8	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	PFECA-A	PFECA-A	0.0038	3.8	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	PFECA-F	PFECA-F	0.0038	3.8	N	U		Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	PFOA	PFOA	0.51	510	Y			Liquid	FS	Groundwater	39.27088	-81.66351
ESTFLDWHEADER1-D1-A-1223	East Well Water	12/12/2023	PFOS	PFOS	0.0041	4.1	Y			Liquid	FS	Groundwater	39.27088	-81.66351
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.00089	0.89	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0018	1.8	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00089	0.89	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0011	1.1	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.00089	0.89	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0013	1.3	Y	J	J	Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00027	0.27	N	U	UJ	Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00036	0.36	N	U	UJ	Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Hfpo Dimer Acid	HFPO-DA	0.097	97	Y		J	Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	NaDONA	NaDONA	0.00027	0.27	N	U	UJ	Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00089	0.89	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0027	2.7	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0027	2.7	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00089	0.89	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.0058	5.8	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorobutanoic Acid	PFBA	0.018	18	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.00053	0.53	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorodecanoic Acid	PFDA	0.0036	3.6	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00027	0.27	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.00044	0.44	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00065	0.65	Y	J	J	Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.032	32	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.00027	0.27	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.037	37	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorohexanoic Acid	PFHxA	0.034	34	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.00053	0.53	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorononanoic Acid	PFNA	0.0037	3.7	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.00044	0.44	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.00044	0.44	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0046	4.6	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluoropentanoic Acid	PFPA	0.016	16	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.00027	0.27	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluorotridecanoic Acid	PFTriA	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
GALLERY_WELL-0918	GALLERY WELL	09/20/2018	PFECA-G	PF

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
2Q19GW-GALLERY WELL	GALLERY WELL	06/10/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U,H		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL	GALLERY WELL	06/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,H	UJ	Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL	GALLERY WELL	06/10/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U,H	UJ	Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL	GALLERY WELL	06/10/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,H,I		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL	GALLERY WELL	06/10/2019	PFOA	PFOA	2.8	2800	Y	H		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL	GALLERY WELL	06/10/2019	PFOS	PFOS	0.030	30	N	U,H		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Hfpo Dimer Acid	HFPO-DA	0.63	630	Y	H	J	Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,H		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorobutanoic Acid	PFBA	0.028	28	Y	H	J	Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,H,I		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U,H		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,H,I		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y	H		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.054	54	Y	H		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorohexanoic Acid	PFHxA	0.079	79	Y	H	J	Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,H		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U,H		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,H		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U,H		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,H,I		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	PFOA	PFOA	3.0	3000	Y	H		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q19GW-GALLERY WELL-D	GALLERY WELL	06/10/2019	PFOS	PFOS	0.030	30	N	U,H,I		Liquid	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Hfpo Dimer Acid	HFPO-DA	0.048	48	Y			LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	PFOA	PFOA	0.58	580	Y	I	J	LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL	GALLERY WELL	09/16/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Hfpo Dimer Acid	HFPO-DA	0.044	44	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	PFOA	PFOA	0.40	400	Y	I	J	LIQUID	DUP	Groundwater	39.2707634	-81.6761475
3Q19GW-GALLERY WELL-D	GALLERY WELL	09/16/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Hfpo Dimer Acid	HFPO-DA	0.033	33	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	PFOA	PFOA	0.19	190	Y	I	J	Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL	GALLERY WELL	12/09/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Hfpo Dimer Acid	HFPO-DA	0.031	31	Y			Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	PFOA	PFOA	0.26	260	Y	I	J	Liquid	DUP	Groundwater	39.2707634	-81.6761475
4Q19GW-GALLERY WELL-D	GALLERY WELL	12/09/2019	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Hfpo Dimer Acid	HFPO-DA	0.032	32	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U,I		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	PFOA	PFOA	0.12	120	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL	GALLERY WELL	03/10/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Hfpo Dimer Acid	HFPO-DA	0.030	30	Y			Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U,I		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	PFOA	PFOA	0.12	120	Y			Liquid	DUP	Groundwater	39.2707634	-81.6761475
1Q20GW-GALLERY WELL-D	GALLERY WELL	03/10/2020	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Hfpo Dimer Acid	HFPO-DA	0.051	51	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	PFOA	PFOA	0.18	180	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL	GALLERY WELL	05/27/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Hfpo Dimer Acid	HFPO-DA	0.044	44	Y			Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	PFOA	PFOA	0.21	210	Y			Liquid	DUP	Groundwater	39.2707634	-81.6761475
2Q20GW-GALLERY WELL-D	GALLERY WELL	05/27/2020	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Groundwater	39.2707634	-81.6761475
3Q20GW-GALLERY WELL	GALLERY WELL	08/12/2020	Hfpo Dimer Acid	HFPO-DA	0.064	64	Y			Liquid	FS	Groundwater	39.2707634	-81.6761475
3Q20GW-GALLERY WELL	GALLERY WELL	08/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Ground

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y			LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0048	4.8	Y			LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluorohexanoic Acid	PFHxA	0.19	190	Y			LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluorononanoic Acid	PFNA	0.044	44	Y			LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluoropentanoic Acid	PFPA	0.090	90	Y			LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	PFOA	PFOA	3.7	3700	Y			LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL	GALLERY WELL	05/08/2023	PFOS	PFOS	0.0034	3.4	Y			LIQUID	FS	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Hfpo Dimer Acid	HFPO-DA	0.29	290	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorobutanoic Acid	PFBA	0.073	73	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorodecanoic Acid	PFDA	0.026	26	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluoroheptanoic Acid	PFHpA	0.12	120	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0048	4.8	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorohexanoic Acid	PFHxA	0.19	190	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorononanoic Acid	PFNA	0.041	41	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluoropentanoic Acid	PFPA	0.090	90	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	PFOA	PFOA	3.5	3500	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1H23GW-GALLERY WELL-D	GALLERY WELL	05/08/2023	PFOS	PFOS	0.0034	3.4	Y			LIQUID	DUP	Groundwater	39.2707634	-81.6761475
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	PFOA	PFOA	1.0	1000	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Hfpo Dimer Acid	HFPO-DA	0.25	250	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorobutanoic Acid	PFBA	0.021	21	Y		J	Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluoroheptanoic Acid	PFHpA	0.034	34	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorododecanoic Acid	PFDoA	0.032	32	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorohexanoic Acid	PFHxA	0.034	34	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-L06-MW01-A	L06-MW01	3/22/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	PFOA	PFOA	0.89	890	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,I	UJ	Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,I		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Hfpo Dimer Acid	HFPO-DA	0.066	66	Y		J	Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q19GW-L06-MW01-A	L06-MW01	6/11/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	PFOA	PFOA	0.32	320	Y	I		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorotetradecanoic Acid	PFTeA	0.037	37	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
3Q19GW-L06-MW01-A	L06-MW01	9/18/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	PFOA	PFOA	0.74	740	Y	I		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Hfpo Dimer Acid	HFPO-DA	0.031	31	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
4Q19GW-L06-MW01-A	L06-MW01	12/12/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluoroundecanoic Acid	PFUnA	0.021	21	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorododecanoic Acid	PFDoA	0.082	82	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Hfpo Dimer Acid	HFPO-DA	0.29	290	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	PFOA	PFOA	0.39	390	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.052	52	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1Q20GW-L06-MW01-A	L06-MW01	3/12/2020	Perfluorotridecanoic Acid	PFTriA	0.049	49	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	PFOA	PFOA	0.47	470	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Hfpo Dimer Acid	HFPO-DA	0.017	17	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-L06-MW01-A	L06-MW01	5/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2Q20GW-

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Hfpo Dimer Acid	HFPO-DA	0.091	91	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
2H21GW-L06-MW01-A	L06-MW01	9/9/2021	PFOA	PFOA	1.0	1000	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Hfpo Dimer Acid	HFPO-DA	0.96	960	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorobutanoic Acid	PFBA	0.060	60	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	PFOS	PFOS	0.065	65	Y	I	J	Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y		J	Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluoropentanoic Acid	PFPA	0.079	79	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorohexanoic Acid	PFHxA	0.086	86	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.040	40	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.67588043
1H22GW-L06-MW01-A	L06-MW01	3/11/2022	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	PFOS	PFOS	0.091	91	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorobutanoic Acid	PFBA	0.095	95	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y	D		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluoropentanoic Acid	PFPA	0.13	130	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorohexanoic Acid	PFHxA	0.16	160	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.040	40	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,*+		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H22GW-L06-MW01-A	L06-MW01	10/18/2022	PFOA	PFOA	8.2	8200	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluoroundecanoic Acid	PFUnA	0.0047	4.7	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.017	17	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0048	4.8	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorododecanoic Acid	PFDoA	0.0089	8.9	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluoroheptanoic Acid	PFHpA	0.12	120	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorononanoic Acid	PFNA	0.014	14	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	PFOS	PFOS	0.11	110	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorobutanoic Acid	PFBA	0.10	100	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluoropentanoic Acid	PFPA	0.15	150	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorohexanoic Acid	PFHxA	0.18	180	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.038	38	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0062	6.2	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0025	2.5	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorotetradecanoic Acid	PFTeA	0.0042	4.2	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorotridecanoic Acid	PFTriA	0.0034	3.4	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
1H23GW-L06-MW01-A	L06-MW01	5/10/2023	PFOA	PFOA	12	12000	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.30	300	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.30	300	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.30	300	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.75	750	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.75	750	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.38	380	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	1.9	1900	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.30	300	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	1.9	1900	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.30	300	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	DONA	DONA	0.30	300	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Hfpo Dimer Acid	HFPO-DA	0.30	300	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.15	150	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorobutanoic Acid	PFBA	0.30	300	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorodecane Sulfonic Acid	PFDS	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorodecanoic Acid	PFDA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorododecanoic Acid	PFDoA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluoroheptanoic Acid	PFHpA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorohexanoic Acid	PFHxA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorononanesulfonic Acid	PFNS	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorononanoic Acid	PFNA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorooctane Sulfonamide	PFOSA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluoropentanoic Acid	PFPA	0.15	150	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluorotridecanoic Acid	PFTriA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	Perfluoroundecanoic Acid	PFUnA	0.075	75	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	PFECA B	PFECA B	0.15	150	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	PFECA-A	PFECA-A	0.15	150	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	PFECA-F	PFECA-F	0.15	150	N	U		LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	PFOS	PFOS	0.11	110	Y	I	J	LIQUID	FS	Groundwater	39.269981384	-81.67588043
2H23GW-L06-MW01-A	L06-MW01	10/12/2023	PFOA	PFOA	3.5	3500	Y			LIQUID	FS	Groundwater	39.269981384	-81.67588043
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	PFOA	PFOA	19.0	19000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluoroheptanoic Acid	PFHpA	0.8	800	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorononanoic Acid	PFNA	2.4	2400	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluoroundecanoic Acid	PFUnA	0.083	83	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	PFOS	PFOS	0.064	64	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorobutanoic Acid	PFBA	1.6	1600	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorodecanoic Acid	PFDA	1.0	1000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Hfpo Dimer Acid	HFPO-DA	17.0	17000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluoropentanoic Acid	PFPA	2.0	2000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorohexanoic Acid	PFHxA	1.4	1400	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.067	67	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q19GW-M04-MW02-A	M04-MW02	3/21/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6/11/2019	PFOA	PFOA	23.0	23000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6/11/2019	Hfpo Dimer Acid	HFPO-DA	24.0	24000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6/11/2019	Perfluorodecanoic Acid	PFDA	1.5	1500	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6/11/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6/11/2019	Perfluoroheptanoic Acid	PFHpA	1.3	1300	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6/11/2019	Perfluorononanoic Acid	PFNA	3.1	3100	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6/11/2019	Perfluoroundecanoic Acid	PFUnA	0.12	120	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6/11/2019	Perfluorobutanoic Acid	PFBA	2.5	2500	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6/11/2019	PFOS	PFOS	0.085	85	Y	I		Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q19GW-M04-MW02-A	M04-MW02	6

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1Q20GW-M04-MW02-A	M04-MW02	3/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
1Q20GW-M04-MW02-A	M04-MW02	3/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	PFOA	PFOA	6.8	6800	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorobutanoic Acid	PFBA	0.83	830	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	PFOS	PFOS	0.042	42	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluoroundecanoic Acid	PFUnA	0.082	82	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluoroheptanoic Acid	PFHpA	0.60	600	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorononanoic Acid	PFNA	1.3	1300	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorodecanoic Acid	PFDA	0.80	800	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Hfpo Dimer Acid	HFPO-DA	8.5	8500	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluoropentanoic Acid	PFPA	1.2	1200	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorohexanoic Acid	PFHxA	1.0	1000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.034	34	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
2Q20GW-M04-MW02-A	M04-MW02	5/27/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	PFOA	PFOA	20	20000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorobutanoic Acid	PFBA	1.9	1900	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	PFOS	PFOS	0.086	86	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluoroundecanoic Acid	PFUnA	0.077	77	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluoroheptanoic Acid	PFHpA	1.6	1600	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorononanoic Acid	PFNA	2.4	2400	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Hfpo Dimer Acid	HFPO-DA	9.6	9600	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorodecanoic Acid	PFDA	0.95	950	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluoropentanoic Acid	PFPA	2.3	2300	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorohexanoic Acid	PFHxA	1.8	1800	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.070	70	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
3Q20GW-M04-MW02-A	M04-MW02	8/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	PFOA	PFOA	25	25000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluoroundecanoic Acid	PFUnA	0.086	86	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluoroheptanoic Acid	PFHpA	0.87	870	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorononanoic Acid	PFNA	3.0	3000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorobutanoic Acid	PFBA	2.4	2400	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	PFOS	PFOS	0.12	120	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorodecanoic Acid	PFDA	1.0	1000	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Hfpo Dimer Acid	HFPO-DA	11	11000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluoropentanoic Acid	PFPA	3.2	3200	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorohexanoic Acid	PFHxA	3.2	3200	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.079	79	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
4Q20GW-M04-MW02-A	M04-MW02	11/5/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluoroundecanoic Acid	PFUnA	0.15	150	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorononanoic Acid	PFNA	1.6	1600	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluoroheptanoic Acid	PFHpA	0.70	700	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	PFOS	PFOS	0.043	43	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorobutanoic Acid	PFBA	1.6	1600	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorodecanoic Acid	PFDA	1.1	1100	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Hfpo Dimer Acid	HFPO-DA	7.9	7900	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluoropentanoic Acid	PFPA	1.3	1300	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorohexanoic Acid	PFHxA	1.3	1300	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.040	40	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H21GW-M04-MW02-A	M04-MW02	3/26/2021	PFOA	PFOA	8.6	8600	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Hfpo Dimer Acid	HFPO-DA	17	17000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorodecanoic Acid	PFDA	1.3	1300	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluoroheptanoic Acid	PFHpA	0.98	980	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorononanoic Acid	PFNA	3.0	3000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluoroundecanoic Acid	PFUnA	0.11	110	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	PFOS	PFOS	0.13	130	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorobutanoic Acid	PFBA	2.1	2100	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluoropentanoic Acid	PFPA	2.7	2700	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorohexanoic Acid	PFHxA	2.2	2200	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.10	100	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorobutane Sulfonic Acid	PFBS	0.026	26	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
2H21GW-M04-MW02-A	M04-MW02	9/8/2021	PFOA	PFOA	24	24000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluoroundecanoic Acid	PFUnA	0.13	130	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluoroheptanoic Acid	PFHpA	0.93	930	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorononanoic Acid	PFNA	3.4	3400	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	PFOS	PFOS	0.12	120	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorobutanoic Acid	PFBA	1.5	1500	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorodecanoic Acid	PFDA	1.5	1500	Y		J	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Hfpo Dimer Acid	HFPO-DA	10	10000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluoropentanoic Acid	PFPA	1.6	1600	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorohexanoic Acid	PFHxA	1.5	1500	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.074	74	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.271038055	-81.67523956
1H22GW-M04-MW02-A	M04-MW02	3/11/2022	PFOA	PFOA	23	23000	Y			Liquid	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Hfpo Dimer Acid	HFPO-DA	21	21000	Y	D		LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorodecanoic Acid	PFDA	1.8	1800	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U	UJ	LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluoroheptanoic Acid	PFHpA	1.7	1700	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorononanoic Acid	PFNA	4.1	4100	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluoroundecanoic Acid	PFUnA	0.098	98	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorobutanoic Acid	PFBA	3.3	3300	Y		J	LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	PFOS	PFOS	0.18	180	Y		J	LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluoropentanoic Acid	PFPA	4.8	4800	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorohexanoic Acid	PFHxA	3.5	3500	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.12	120	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.023	23	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,*+	UJ	LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	LIQUID	FS	Groundwater	39.271038055	-81.67523956
2H22GW-M04-MW02-A	M04-MW02	10/18/2022	PFOA	PFOA	52	52000	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Hfpo Dimer Acid	HFPO-DA	69	69000	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorodecanoic Acid	PFDA	1.8	1800	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	PFECA-F	PFECA-F	0.023	23	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorobutanoic Acid	PFBA	2.7	2700	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	PFOS	PFOS	0.067	67	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	PFECA-A	PFECA-A	0.023	23	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorononanoic Acid	PFNA	5.1	5100	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluoroheptanoic Acid	PFHpA	1.1	1100	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorododecanoic Acid	PFDoA	0.011	11	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.014	14	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluoroundecanoic Acid	PFUnA	0.054	54	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.56	560	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluoropentanoic Acid	PFPA	4.5	4500	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorohexanoic Acid	PFHxA	2.5	2500	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.071	71	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	1.6	1600	Y	I	J	LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorobutane Sulfonic Acid	PFBS	0.011	11	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0034	3.4	Y			LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.13	130	Y	I	J	LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.78	780	Y	I	J	LIQUID	FS	Groundwater	39.271038055	-81.67523956
1H23GW-M04-MW02-A	M04-MW02	5/10/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Groundwater	39.271038055	-81.67523956
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Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1Q19GW-N05-MW01-A	N05-MW01	3/22/2019	Perfluoropentanoic Acid	PFPA	0.057	57	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q19GW-N05-MW01-A	N05-MW01	3/22/2019	Perfluorohexanoic Acid	PFHxA	0.09	90	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q19GW-N05-MW01-A	N05-MW01	3/22/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.049	49	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q19GW-N05-MW01-A	N05-MW01	3/22/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q19GW-N05-MW01-A	N05-MW01	3/22/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q19GW-N05-MW01-A	N05-MW01	3/22/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	PFOA	PFOA	3.1	3100	Y		J	Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorobutanoic Acid	PFBA	0.041	41	Y		J	Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorononanoic Acid	PFNA	0.059	59	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,I		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorodecanoic Acid	PFDA	1.1	1100	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y		J	Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluoropentanoic Acid	PFPA	0.04	40	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorohexanoic Acid	PFHxA	0.089	89	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.066	66	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q19GW-N05-MW01-A	N05-MW01	6/11/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	PFOA	PFOA	3.4	3400	Y	I		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorobutanoic Acid	PFBA	0.041	41	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorononanoic Acid	PFNA	0.061	61	Y	I		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y	I		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Hfpo Dimer Acid	HFPO-DA	0.59	590	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorodecanoic Acid	PFDA	1.0	1000	Y	I		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluoropentanoic Acid	PFPA	0.065	65	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorohexanoic Acid	PFHxA	0.086	86	Y	I		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.068	68	Y	I		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorotetradecanoic Acid	PFTeA	0.052	52	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q19GW-N05-MW01-A	N05-MW01	9/18/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	PFOA	PFOA	3.7	3700	Y	I		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorononanoic Acid	PFNA	0.068	68	Y	I		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y	I		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorobutanoic Acid	PFBA	0.054	54	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorodecanoic Acid	PFDA	1.0	1000	Y	I		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Hfpo Dimer Acid	HFPO-DA	0.70	700	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluoropentanoic Acid	PFPA	0.062	62	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorohexanoic Acid	PFHxA	0.10	100	Y	I		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.065	65	Y	I		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
4Q19GW-N05-MW01-A	N05-MW01	12/12/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorononanoic Acid	PFNA	0.064	64	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorobutanoic Acid	PFBA	0.045	45	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorodecanoic Acid	PFDA	0.88	880	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Hfpo Dimer Acid	HFPO-DA	0.21	210	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	PFOA	PFOA	3.4	3400	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluoropentanoic Acid	PFPA	0.034	34	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.055	55	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1Q20GW-N05-MW01-A	N05-MW01	3/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	PFOA	PFOA	3.4	3400	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Hfpo Dimer Acid	HFPO-DA	0.022	22	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorodecanoic Acid	PFDA	0.68	680	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorononanoic Acid	PFNA	0.060	60	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluoroheptanoic Acid	PFHpA	0.067	67	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorohexanoic Acid	PFHxA	0.037	37	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.050	50	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2Q20GW-N05-MW01-A	N05-MW01	5/28/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	PFOA	PFOA	3.3	3300	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorodecanoic Acid	PFDA	0.85	850	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Hfpo Dimer Acid	HFPO-DA	0.019	19	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorononanoic Acid	PFNA	0.062	62	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluoroheptanoic Acid	PFHpA	0.047	47	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorohexanoic Acid	PFHxA	0.028	28	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.041	41	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
3Q20GW-N05-MW01-A	N05-MW01	8/13/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	PFOA	PFOA	2.3	2300	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Hfpo Dimer Acid	HFPO-DA	0.47	470	Y	*,*1	J	Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorodecanoic Acid	PFDA	0.51	510	Y		J	Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorobutanoic Acid	PFBA	0.27	270	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorononanoic Acid	PFNA	0.060	60	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluoroheptanoic Acid	PFHpA	0.079	79	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluoropentanoic Acid	PFPA	0.088	88	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorohexanoic Acid	PFHxA	0.28	280	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
4Q20GW-N05-MW01-A	N05-MW01	11/3/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Hfpo Dimer Acid	HFPO-DA	0.67	670	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorodecanoic Acid	PFDA	0.93	930	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorobutanoic Acid	PFBA	0.045	45	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluoroheptanoic Acid	PFHpA	0.082	82	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorononanoic Acid	PFNA	0.057	57	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluoropentanoic Acid	PFPA	0.039	39	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorohexanoic Acid	PFHxA	0.082	82	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.034	34	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
1H21GW-N05-MW01-A	N05-MW01	3/25/2021	PFOA	PFOA	2.4	2400	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorobutanoic Acid	PFBA	0.079	79	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluoroheptanoic Acid	PFHpA	0.088	88	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorononanoic Acid	PFNA	0.061	61	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorodecanoic Acid	PFDA	0.84	840	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Hfpo Dimer Acid	HFPO-DA	0.37	370	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluoropentanoic Acid	PFPA	0.040	40	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorohexanoic Acid	PFHxA	0.088	88	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.041	41	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
2H21GW-N05-MW01-A	N05-MW01	9/9/2021	PFOA	PFOA	2.5	2500	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H22GW-N05-MW01-A	N05-MW01	3/11/2022	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H22GW-N05-MW01-A	N05-MW01	3/11/2022	Perfluorodecanoic Acid	PFDA	1.7	1700	Y		J	Liquid	FS	Groundwater	39.270500183	-81.67424774
1H22GW-N05-MW01-A	N05-MW01	3/11/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1H22GW-N05-MW01-A	N05-MW01	3/11/2022	Perfluorobutanoic Acid	PFBA	0.15	150	Y			Liquid	FS	Groundwater	39.270500183	-81.67424774
1H22GW-N05-MW01-A	N05-MW01	3/11/2022	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.270500183	-81.67424774
1H22GW-N05-MW01-A	N05-MW01	3/11/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.270500183	-81.67424774
1H22GW-N05-MW01-

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	Perfluorohexanoic Acid	PFHxA	0.14	140	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.026	26	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	Perfluorobutane Sulfonic Acid	PFBS	0.012	12	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	Perfluorotetradecanoic Acid	PFTeA	0.0070	7	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	Perfluorotridecanoic Acid	PFTriA	0.0023	2.3	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
1H23GW-N05-MW01-A	N05-MW01	5/10/2023	PFOA	PFOA	5.9	5900	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.32	320	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.32	320	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.32	320	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.80	800	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.80	800	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.40	400	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	2.0	2000	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.32	320	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	2.0	2000	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.32	320	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	DONA	DONA	0.32	320	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Hfpo Dimer Acid	HFPO-DA	0.32	320	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.16	160	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorobutanoic Acid	PFBA	0.32	320	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorodecane Sulfonic Acid	PFDS	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorodecanoic Acid	PFDA	0.49	490	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorododecanoic Acid	PFDoA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluoroheptanoic Acid	PFHpA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorohexanoic Acid	PFHxA	0.11	110	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorononanesulfonic Acid	PFNS	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorononanoic Acid	PFNA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorooctane Sulfonamide	PFOSA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluoropentanoic Acid	PFPA	0.16	160	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluorotridecanoic Acid	PFTriA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	Perfluoroundecanoic Acid	PFUnA	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	PFECA B	PFECA B	0.16	160	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	PFECA-A	PFECA-A	0.16	160	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	PFECA-F	PFECA-F	0.16	160	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	PFOS	PFOS	0.080	80	N	U		LIQUID	FS	Groundwater	39.270500183	-81.67424774
2H23GW-N05-MW01-A	N05-MW01	10/12/2023	PFOA	PFOA	4.4	4400	Y			LIQUID	FS	Groundwater	39.270500183	-81.67424774
Outfall001-082118-2	OUTLET 001	08/21/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.001	1	N	U	UJ	Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFOA	PFOA	1.8	1800	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorononanesulfonic Acid	PFNS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.012	12	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0086	8.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.001	1	N	U	UJ	Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0022	2.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorobutane Sulfonic Acid	PFBS	0.013	13	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0086	8.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFOS	PFOS	0.17	170	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluoroundecanoic Acid	PFUnA	0.041	41	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorobutanoic Acid	PFBA	0.056	56	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	NaDONA	NaDONA	0.001	1	N	U	UJ	Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Hfpo Dimer Acid	HFPO-DA	9.2	9200	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorododecanoic Acid	PFDoA	0.071	71	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0057	5.7	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00095	0.95	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0086	8.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.013	13	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorodecane Sulfonic Acid	PFDS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluoropentanoic Acid	PFPA	0.055	55	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.086	86	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorotetradecanoic Acid	PFTeA	0.024	24	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorotridecanoic Acid	PFTriA	0.013	13	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorooctane Sulfonamide	PFOSA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorooctadecanoic Acid	PFODA	0.0044	4.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorodecanoic Acid	PFDA	0.23	230	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	Perfluorononanoic Acid	PFNA	0.07	70	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall001-082118-2	OUTLET 001	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0818-OUTLET 001-2	OUTLET 001	08/22/2018	Hfpo Dimer Acid	HFPO-DA	9.9	9900	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0918-OUTLET 001	OUTLET 001	09/13/2018	PFOA	PFOA	3.5	3500	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0918-OUTLET 001	OUTLET 001	09/13/2018	Hfpo Dimer Acid	HFPO-DA	0.19	190	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0027	2.7	N	U	UJ	Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00036	0.36	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.004	4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00036	0.36	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0027	2.7	N	U	UJ	Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.00054	0.54	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00027	0.27	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFOA	PFOA	3.4	3400	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.00027	0.27	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFOS	PFOS	0.012	12	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluorobutanoic Acid	PFBA	0.049	49	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	NaDONA	NaDONA	0.00027	0.27	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.00089	0.89	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	Y	J	J	Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00089	0.89	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.00054	0.54	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00089	0.89	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0011	1.1	N	U	UJ	Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0026	2.6	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.0048	4.8	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00027	0.27	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
OUTFALL_001-0918	OUTLET 001	09/20/2018	PEPA	PEPA	0.20

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW2Q19-OUTLET 001-A	OUTLET 001	06/06/2019	Perfluorodecanoic Acid	PFDA	0.042	42	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q19-OUTLET 001-A	OUTLET 001	06/06/2019	Perfluoroheptanoic Acid	PFHpA	0.41	410	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q19-OUTLET 001-A	OUTLET 001	06/06/2019	Perfluorononanoic Acid	PFNA	0.035	35	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW619-OUTLET 001	OUTLET 001	06/06/2019	PFOA	PFOA	17	17000	Y	H	J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW619-OUTLET 001	OUTLET 001	06/06/2019	Hfpo Dimer Acid	HFPO-DA	5.7	5700	Y	H	J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW719-OUTLET 001	OUTLET 001	07/02/2019	PFOA	PFOA	6.1	6100	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW719-OUTLET 001	OUTLET 001	07/02/2019	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0819-OUTLET 001-081519	OUTLET 001	08/15/2019	PFOA	PFOA	2.7	2700	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0819-OUTLET 001-081519	OUTLET 001	08/15/2019	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001	OUTLET 001	09/12/2019	PFOA	PFOA	2.4	2400	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001	OUTLET 001	09/12/2019	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	DONA	DONA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	PFOS	PFOS	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0028	2.8	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluorohexanoic Acid	PFHxA	0.058	58	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0064	6.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluoroheptanoic Acid	PFHpA	0.044	44	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q19-OUTLET 001-A	OUTLET 001	09/12/2019	Perfluorononanoic Acid	PFNA	0.0025	2.5	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW919-OUTLET 001	OUTLET 001	09/25/2019	PFOA	PFOA	3.6	3600	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW919-OUTLET 001	OUTLET 001	09/25/2019	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1019-OUTLET 001	OUTLET 001	10/10/2019	PFOA	PFOA	2.3	2300	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1019-OUTLET 001	OUTLET 001	10/10/2019	Hfpo Dimer Acid	HFPO-DA	0.39	390	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1119-OUTLET 001	OUTLET 001	11/07/2019	PFOA	PFOA	2.7	2700	Y	*	J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1119-OUTLET 001	OUTLET 001	11/07/2019	Hfpo Dimer Acid	HFPO-DA	0.49	490	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1219-OUTLET 001	OUTLET 001	12/12/2019	PFOA	PFOA	9.7	9700	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1219-OUTLET 001	OUTLET 001	12/12/2019	Hfpo Dimer Acid	HFPO-DA	0.88	880	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0120-OUTLET 001	OUTLET 001	01/09/2020	PFOA	PFOA	16	16000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0120-OUTLET 001	OUTLET 001	01/09/2020	Hfpo Dimer Acid	HFPO-DA	0.48	480	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0220-OUTLET 001	OUTLET 001	02/06/2020	PFOA	PFOA	8.9	8900	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0220-OUTLET 001	OUTLET 001	02/06/2020	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001	OUTLET 001	02/06/2020	PFOA	PFOA	10	10000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001	OUTLET 001	02/06/2020	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0320-OUTLET 001	OUTLET 001	03/05/2020	PFOA	PFOA	17	17000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0320-OUTLET 001	OUTLET 001	03/05/2020	Hfpo Dimer Acid	HFPO-DA	0.99	990	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluorobutane Sulfonic Acid	PFBS	0.003	3	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	DONA	DONA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	PFOS	PFOS	0.0079	7.9	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluoroundecanoic Acid	PFUnA	0.0032	3.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluorohexanoic Acid	PFHxA	0.34	340	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0051	5.1	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluorodecanoic Acid	PFDA	0.018	18	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluoroheptanoic Acid	PFHpA	0.22	220	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A	OUTLET 001	03/05/2020	Perfluorononanoic Acid	PFNA	0.021	21	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	DONA	DONA	0.0018	1.8	N	<		Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0028	2.8	Y			Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	<		Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	PFOS	PFOS	0.0087	8.7	Y			Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluoroundecanoic Acid	PFUnA	0.0035	3.5	Y			Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0028	2.8	N	<		Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	<		Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluorododecanoic Acid	PFDoA	0.002	2	Y			Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluorohexanoic Acid	PFHxA	0.32	320	Y		J	Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0059	5.9	Y		J	Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	<		Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	<		Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	<		Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluorodecanoic Acid	PFDA	0.018	18	Y			Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluoroheptanoic Acid	PFHpA	0.23	230	Y		J	Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW1Q20-OUTLET 001-A-D	OUTLET 001	03/05/2020	Perfluorononanoic Acid	PFNA	0.021	21	Y			Liquid	DUP	Other liquid	39.27256012	-81.6637115
SW0420-OUTLET 001	OUTLET 001	04/02/2020	PFOA	PFOA	39	39000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0420-OUTLET 001	OUTLET 001	04/02/2020	Hfpo Dimer Acid	HFPO-DA	5.2	5200	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0520-OUTLET 001	OUTLET 001	05/14/2020	PFOA	PFOA	47	47000	Y	E	J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0520-OUTLET 001	OUTLET 001	05/14/2020	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0029	2.9	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	PFOS	PFOS	0.010	10	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluoroundecanoic Acid	PFUnA	0.0058	5.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluorododecanoic Acid	PFDoA	0.0068	6.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluorohexanoic Acid	PFHxA	0.37	370	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0085	8.5	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.0022	2.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluorotridecanoic Acid	PFTriA	0.0020	2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluorodecanoic Acid	PFDA	0.037	37	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluoroheptanoic Acid	PFHpA	0.29	290	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q20-OUTLET 001-A	OUTLET 001	05/28/2020	Perfluorononanoic Acid	PFNA	0.038	38	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0620-OUTLET 001	OUTLET 001	06/04/2020	PFOA	PFOA	26	26000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0620-OUTLET 001	OUTLET 001	06/04/2020	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0720-OUTLET 001	OUTLET 001	07/09/2020	PFOA	PFOA	44	44000	Y	E	J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0720-OUTLET 001	OUTLET 001	07/09/2020	Hfpo Dimer Acid	HFPO-DA	0.47	470	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0820-OUTLET 001	OUTLET 001	08/06/2020	PFOA	PFOA	49	49000	Y	E	J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0820-OUTLET 001	OUTLET 001	08/06/2020	Hfpo Dimer Acid	HFPO-DA	0.66	660	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0040	4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	PFOS	PFOS	0.0023	2.3	Y		B	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluorohexanoic Acid	PFHxA	0.74	740	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0049	4.9	Y		B	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluorotridecanoic Acid	PFTriA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluorodecanoic Acid	PFDA	0.016	16	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluoroheptanoic Acid	PFHpA	0.61	610	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q20-OUTLET 001-A	OUTLET 001	08/13/2020	Perfluorononanoic Acid	PFNA	0.021	21	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0920-OUTLET 001	OUTLET 001	09/17/2020	PFOA	PFOA	64	64000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0920-OUTLET 001	OUTLET 001	09/17/2020	Hfpo Dimer Acid	HFPO-DA	0.67	670	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1020-OUTLET 001	OUTLET 001	10/08/2020	PFOA	PFOA	0.76	760	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1020-OUTLET 001	OUTLET 001	10/08/2020	Hfpo Dimer Acid	HFPO-DA	0.71	710	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	PFOA	PFOA	8.7	8700	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0054	5.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	PFOS	PFOS	0.0088	8.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluoroundecanoic Acid	PFUnA	0.0020	2	Y	I	J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluorobutanoic Acid	PFBA	0.099	99	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Hfpo Dimer Acid	HFPO-DA	0.35	350	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluorododecanoic Acid	PFDoA	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluoropentanoic Acid	PFPA	0.078	78	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluorohexanoic Acid	PFHxA	0.30	300	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.010	10	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluorodecanoic Acid	PFDA	0.0075	7.5	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluoroheptanoic Acid	PFHpA	0.23	230	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q20-OUTLET 001-A	OUTLET 001	11/19/2020	Perfluorononanoic Acid	PFNA	0.011	11	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1220-OUTLET 001 121020	OUTLET 001	12/10/2020	PFOA	PFOA	5.9	5900	Y	*1	J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1220-OUTLET 001 121020	OUTLET 001	12/10/2020	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0121-OUTLET 001-012121	OUTLET 001	01/21/2021	PFOA	PFOA	23	23000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0121-OUTLET 001-012121	OUTLET 001	01/21/2021	Hfpo Dimer Acid	HFPO-DA	4.0	4000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q21-OUTLET 001-A-012121	OUTLET 001	01/21/2021	PFOA	PFOA	23	23000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q21-OUTLET 001-A-012121	OUTLET 001	01/21/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q21-OUTLET 001-A-012121	OUTLET 001	01/21/2021	DONA	DONA	0.0016	1.6	N	U	UJ	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q21-OUTLET 001-A-012121	OUTLET 001	01/21/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0045	4.5	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q21-OUTLET 001-A-012121	OUTLET 001	01/21/2021	PFOS	PFOS	0.024	24	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q21-OUTLET 001-A-012121	OUTLET 001	01/21/2021	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q21-OUTLET 001-A-012121	OUTLET 001	01/21/2021	Perfluorobutanoic Acid	PFBA	0.21	210	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q21-OUTLET 001-A-012121	OUTLET 001	01/21/2

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW3Q21-OUTLET 001-A-071521	OUTLET 001	07/15/2021	Perfluoropentanoic Acid	PFPA	0.010	10	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q21-OUTLET 001-A-071521	OUTLET 001	07/15/2021	Perfluorohexanoic Acid	PFHxA	0.035	35	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q21-OUTLET 001-A-071521	OUTLET 001	07/15/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.033	33	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q21-OUTLET 001-A-071521	OUTLET 001	07/15/2021	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q21-OUTLET 001-A-071521	OUTLET 001	07/15/2021	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q21-OUTLET 001-A-071521	OUTLET 001	07/15/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q21-OUTLET 001-A-071521	OUTLET 001	07/15/2021	Perfluorodecanoic Acid	PFDA	0.0042	4.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q21-OUTLET 001-A-071521	OUTLET 001	07/15/2021	Perfluoroheptanoic Acid	PFHpA	0.021	21	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q21-OUTLET 001-A-071521	OUTLET 001	07/15/2021	Perfluorononanoic Acid	PFNA	0.0039	3.9	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0821-OUTLET 001-080521	OUTLET 001	08/05/2021	PFOA	PFOA	0.54	540	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0821-OUTLET 001-080521	OUTLET 001	08/05/2021	Hfpo Dimer Acid	HFPO-DA	0.57	570	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0921-OUTLET 001-090921	OUTLET 001	09/09/2021	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0921-OUTLET 001-090921	OUTLET 001	09/09/2021	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0028	2.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	PFOA	PFOA	0.35	350	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	PFOS	PFOS	0.0085	8.5	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluoroundecanoic Acid	PFUnA	0.0062	6.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluorobutanoic Acid	PFBA	0.0080	8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluorododecanoic Acid	PFDoA	0.0069	6.9	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluoropentanoic Acid	PFPA	0.0038	3.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluorohexanoic Acid	PFHxA	0.011	11	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0048	4.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluorotetradecanoic Acid	PFTeA	0.0052	5.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluorotridecanoic Acid	PFTriA	0.0030	3	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluorodecanoic Acid	PFDA	0.0094	9.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluoroheptanoic Acid	PFHpA	0.0084	8.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW4Q21-OUTLET 001-A	OUTLET 001	10/14/2021	Perfluorononanoic Acid	PFNA	0.0048	4.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1121-OUTLET 001-111121	OUTLET 001	11/11/2021	PFOA	PFOA	0.26	260	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1121-OUTLET 001-111121	OUTLET 001	11/11/2021	Hfpo Dimer Acid	HFPO-DA	0.50	500	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1221-OUTLET 001-120221	OUTLET 001	12/02/2021	PFOA	PFOA	0.15	150	Y	cn		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1221-OUTLET 001-120221	OUTLET 001	12/02/2021	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y	cn		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	PFOA	PFOA	0.22	220	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	PFOS	PFOS	0.013	13	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluoroundecanoic Acid	PFUnA	0.0071	7.1	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluorobutanoic Acid	PFBA	0.0083	8.3	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluorododecanoic Acid	PFDoA	0.010	10	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluoropentanoic Acid	PFPA	0.0049	4.9	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluorohexanoic Acid	PFHxA	0.010	10	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0045	4.5	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluorotetradecanoic Acid	PFTeA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluorotridecanoic Acid	PFTriA	0.0037	3.7	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluorodecanoic Acid	PFDA	0.0085	8.5	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluoroheptanoic Acid	PFHpA	0.0090	9	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1Q22-OUTLET 001-A-011322	OUTLET 001	01/13/2022	Perfluorononanoic Acid	PFNA	0.0047	4.7	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0222-OUTLET 001 021022	OUTLET 001	02/10/2022	PFOA	PFOA	1.3	1300	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0222-OUTLET 001 021022	OUTLET 001	02/10/2022	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	PFOA	PFOA	0.55	550	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0055	5.5	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	PFOS	PFOS	0.0060	6	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluorobutanoic Acid	PFBA	0.012	12	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Hfpo Dimer Acid	HFPO-DA	0.90	900	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluoropentanoic Acid	PFPA	0.0065	6.5	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluorohexanoic Acid	PFHxA	0.019	19	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.026	26	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0222-OUTLET 001-A	OUTLET 001	02/16/2022	Perfluorononanoic Acid	PFNA	0.0022	2.2	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
SW0322-OUTLET 001-030322	OUTLET 001	03/03/2022	PFOA	PFOA	0.23	230	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0322-OUTLET 001-030322	OUTLET 001	03/03/2022	Hfpo Dimer Acid	HFPO-DA	0.42	420	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	PFOA	PFOA	0.43	430	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	PFOS	PFOS	0.0045	4.5	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluorobutanoic Acid	PFBA	0.0080	8	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Hfpo Dimer Acid	HFPO-DA	0.49	490	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluoropentanoic Acid	PFPA	0.0076	7.6	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluorohexanoic Acid	PFHxA	0.021	21	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0033	3.3	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluorodecanoic Acid	PFDA	0.0023	2.3	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluoroheptanoic Acid	PFHpA	0.015	15	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0322-OUTLET 001-A	OUTLET 001	03/16/2022	Perfluorononanoic Acid	PFNA	0.0041	4.1	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	PFOA	PFOA	0.55	550	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	PFOS	PFOS	0.025	25	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluoroundecanoic Acid	PFUnA	0.0046	4.6	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluorobutanoic Acid	PFBA	0.024	24	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluorododecanoic Acid	PFDoA	0.0044	4.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluoropentanoic Acid	PFPA	0.029	29	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluorohexanoic Acid	PFHxA	0.15	150	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluorotetradecanoic Acid	PFTeA	0.0024	2.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluorotridecanoic Acid	PFTriA	0.0031	3.1	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluorodecanoic Acid	PFDA	0.0067	6.7	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluoroheptanoic Acid	PFHpA	0.024	24	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q22-OUTLET 001-A-041422	OUTLET 001	04/14/2022	Perfluorononanoic Acid	PFNA	0.0071	7.1	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0422-OUTLET 001-042322	OUTLET 001	04/23/2022	Hfpo Dimer Acid	HFPO-DA	0.30	300	Y	B,cn		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0422-OUTLET 001-042422	OUTLET 001	04/24/2022	Hfpo Dimer Acid	HFPO-DA	0.23	230	Y	B,cn		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0522-OUTLET 001-050522	OUTLET 001	05/05/2022	PFOA	PFOA	0.38	380	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0522-OUTLET 001-050522	OUTLET 001	05/05/2022	Hfpo Dimer Acid	HFPO-DA	7.1	7100	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	PFOA	PFOA	0.28	280	Y	cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	DONA	DONA	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0027	2.7	Y	cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	PFOS	PFOS	0.0052	5.2	Y	cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluorobutanoic Acid	PFBA	0.0067	6.7	Y	cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Hfpo Dimer Acid	HFPO-DA	0.48	480	Y	cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluoropentanoic Acid	PFPA	0.0037	3.7	Y	cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluorohexanoic Acid	PFHxA	0.013	13	Y	cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.011	11	Y	cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U,cn	UJ	LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluoroheptanoic Acid	PFHpA	0.0079	7.9	Y	cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV0422-OUTLET 001-A	OUTLET 001	05/11/2022	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
SW0522-OUTLET 001 051822	OUTLET 001	05/18/2022	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y	cn		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0522-OUTLET 001 051922	OUTLET 001	05/19/2022	Hfpo Dimer Acid	HFPO-DA	0.69	690	Y	cn		Liquid	FS	Other liquid

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluoroundecanoic Acid	PFUnA	0.0084	8.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluorobutanoic Acid	PFBA	0.040	40	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Hfpo Dimer Acid	HFPO-DA	14	14000	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluorododecanoic Acid	PFDoA	0.0088	8.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluoropentanoic Acid	PFPA	0.030	30	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluorohexanoic Acid	PFHxA	0.11	110	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.045	45	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluorotetradecanoic Acid	PFTeA	0.0032	3.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluorotridecanoic Acid	PFTriA	0.0037	3.7	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluorodecanoic Acid	PFDA	0.017	17	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluoroheptanoic Acid	PFHpA	0.026	26	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q22-OUTLET 001-A-070722	OUTLET 001	07/07/2022	Perfluorononanoic Acid	PFNA	0.013	13	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW722-OUTLET 001-072122	OUTLET 001	07/21/2022	PFOA	PFOA	0.41	410	Y	cn		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW722-OUTLET 001-072122	OUTLET 001	07/21/2022	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y	cn		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0822-OUTLET 001-080422	OUTLET 001	08/04/2022	PFOA	PFOA	0.36	360	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
SW0822-OUTLET 001-080422	OUTLET 001	08/04/2022	Hfpo Dimer Acid	HFPO-DA	0.39	390	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	PFOA	PFOA	0.50	500	Y			LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0055	5.5	Y			LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	PFOS	PFOS	0.0040	4	Y			LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluorobutanoic Acid	PFBA	0.013	13	Y			LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Hfpo Dimer Acid	HFPO-DA	0.59	590	Y			LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluoropentanoic Acid	PFPA	0.0064	6.4	Y			LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluorohexanoic Acid	PFHxA	0.021	21	Y			LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.019	19	Y			LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y			LIQUID	FS	other liquid	39.27256012	-81.6637115
OHRV-0822-OUTLET 001-A	Outlet 001	08/17/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27256012	-81.6637115
SW0922-OUTLET 001-090822	OUTLET 001	09/08/2022	PFOA	PFOA	0.32	320	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0922-OUTLET 001-090822	OUTLET 001	09/08/2022	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	PFOA	PFOA	0.46	460	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0062	6.2	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	PFOS	PFOS	0.0036	3.6	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluorobutanoic Acid	PFBA	0.015	15	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Hfpo Dimer Acid	HFPO-DA	0.89	890	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluoropentanoic Acid	PFPA	0.0088	8.8	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluorohexanoic Acid	PFHxA	0.017	17	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.020	20	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluoroheptanoic Acid	PFHpA	0.015	15	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
OHRV-0922-OUTLET 001-A	OUTLET 001	09/28/2022	Perfluorononanoic Acid	PFNA	0.0019	1.9	Y			LIQUID	FS	Surface Water	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	PFOA	PFOA	0.36	360	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0038	3.8	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	PFOS	PFOS	0.0087	8.7	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluorobutanoic Acid	PFBA	0.011	11	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluoropentanoic Acid	PFPA	0.0068	6.8	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluorohexanoic Acid	PFHxA	0.022	22	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.017	17	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluorodecanoic Acid	PFDA	0.0020	2	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluoroheptanoic Acid	PFHpA	0.011	11	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q22-OUTLET 001-A-100622	OUTLET 001	10/06/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1022-OUTLET 001-102522	OUTLET 001	10/25/2022	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	PFOA	PFOA	0.31	310	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0036	3.6	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	PFOS	PFOS	0.0046	4.6	Y	I	J	LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluorobutanoic Acid	PFBA	0.0085	8.5	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Hfpo Dimer Acid	HFPO-DA	0.63	630	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluoropentanoic Acid	PFPA	0.0053	5.3	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluorohexanoic Acid	PFHxA	0.012	12	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.013	13	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluoroheptanoic Acid	PFHpA	0.0091	9.1	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
OHRV-1122-OUTLET 001-A	Outlet 001	11/02/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
SW1122-OUTLET 001-110322	OUTLET 001	11/03/2022	PFOA	PFOA	0.424	424	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1122-OUTLET 001-110322	OUTLET 001	11/03/2022	Hfpo Dimer Acid	HFPO-DA	0.806	806	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluorononanesulfonic Acid	PFNS	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	PFOA	PFOA	0.21	210	Y		J	LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	PFO3OA	PFO3OA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	PPF Acid	PPF Acid	0.085	85	Y	*-,cn	J	LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluoropropanesulfonic Acid	PFPrS	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.030	30	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	DONA	DONA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.050	50	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	2-Perfluorodecylethanoic Acid	10:2 FTCA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Hydro-PS Acid	Hydro-PS Acid	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	PFECA-A	PFECA-A	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	R-PSDA	R-PSDA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	R-PSDCA	R-PSDCA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	PFECA B	PFECA B	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.030	30	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	PFOS	PFOS	0.035	35	Y		J	LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	R-EVE	R-EVE	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluorobutanoic Acid	PFBA	0.050	50	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	PFECA-F	PFECA-F	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	PFO2HxA	PFO2HxA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	PFECA-G	PFECA-G	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	MTP	MTP	0.050	50	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Hfpo Dimer Acid	HFPO-DA	15	15000	Y			LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.030	30	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	6:2 Fluorotelomer sulfonate	6:2 FTS	0.050	50	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluorododecanoic Acid	PFDoA	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.030	30	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluorohexanesulfonamide	FHXSA	0.020	20	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	EVE Acid	EVE Acid	0.10	100	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.030	30	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	NVHOS, Acid Form	NVHOS, Acid Form	0.020	20	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	10:2 Fluorotelomer sulfonate	10:2 FTS	0.050	50	N	U		LIQUID	FS	Other Liquid	39.27256012	-81.6637115
Outfall 001-120122	OUTLET 001	12/01/2022	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.020	20	N	U		LIQUID	F

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluoroundecanoic Acid	PFUnA	0.00691	6.91	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluorobutanoic Acid	PFBA	0.0252	25.2	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00706	7.06	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Hfpo Dimer Acid	HFPO-DA	5.94	5940	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluorododecanoic Acid	PFDoA	0.00568	5.68	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluoropentanoic Acid	PFPA	0.0180	18	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluorohexanoic Acid	PFHxA	0.0471	47.1	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0105	10.5	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluorotridecanoic Acid	PFTriA	0.00216	2.16	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00353	3.53	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluorodecanoic Acid	PFDA	0.00945	9.45	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluoroheptanoic Acid	PFHpA	0.0145	14.5	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW1Q23-OUTLET 001-A-011223	OUTLET 001	01/12/2023	Perfluorononanoic Acid	PFNA	0.00702	7.02	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	DONA	DONA	0.00691	6.91	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00256	2.56	Y			LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	PFOA	PFOA	0.368	368	Y			LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00691	6.91	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	PFOS	PFOS	0.00329	3.29	Y			LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluoroundecanoic Acid	PFUnA	0.00173	1.73	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluorobutanoic Acid	PFBA	0.0691	69.1	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Hfpo Dimer Acid	HFPO-DA	1.13	1130	Y			LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluorododecanoic Acid	PFDoA	0.00173	1.73	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00173	1.73	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00691	6.91	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluoropentanoic Acid	PFPA	0.00521	5.21	Y	I	J	LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluorohexanoic Acid	PFHxA	0.0114	11.4	Y			LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0131	13.1	Y			LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluorotetradecanoic Acid	PFTeA	0.00173	1.73	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluorotridecanoic Acid	PFTriA	0.00173	1.73	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00345	3.45	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluorodecanoic Acid	PFDA	0.00173	1.73	N	U		LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluoroheptanoic Acid	PFHpA	0.0112	11.2	Y			LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
OHRV-0223-OUTLET 001-A	OUTLET 001	02/06/2023	Perfluorononanoic Acid	PFNA	0.00179	1.79	Y			LIQUID	FS	OTHER LIQUID	39.27256012	-81.6637115
SW0223-OUTLET 001-020923	OUTLET 001	02/09/2023	PFOA	PFOA	0.474	474	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0223-OUTLET 001-020923	OUTLET 001	02/09/2023	Hfpo Dimer Acid	HFPO-DA	10.4	10400	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorononanesulfonic Acid	PFNS	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0400	40	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	PFOA	PFOA	0.578	578	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0800	80	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	PFECA B	PFECA B	0.0400	40	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	DONA	DONA	0.0800	80	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	PFECA-A	PFECA-A	0.0400	40	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.500	500	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	PFOS	PFOS	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluoroundecanoic Acid	PFUnA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorobutanoic Acid	PFBA	0.0800	80	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	PFECA-F	PFECA-F	0.0400	40	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Hfpo Dimer Acid	HFPO-DA	6.35	6350	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.200	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0800	80	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorododecanoic Acid	PFDoA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0800	80	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0800	80	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0800	80	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluoropentanoic Acid	PFPA	0.0400	40	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorohexanoic Acid	PFHxA	0.0400	40	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0275	27.5	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.100	100	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorotridecanoic Acid	PFTriA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.500	500	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0400	40	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.200	200	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorodecanoic Acid	PFDA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluoroheptanoic Acid	PFHpA	0.0216	21.6	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0323-OUTLET 001-030223	OUTLET 001	03/02/2023	Perfluorononanoic Acid	PFNA	0.0200	20	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00359	3.59	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	PFECA B	PFECA B	0.00340	3.4	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	DONA	DONA	0.00679	6.79	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	PFECA-A	PFECA-A	0.00340	3.4	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0424	42.4	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00340	3.4	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	PFOA	PFOA	0.512	512	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00679	6.79	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	PFOS	PFOS	0.00322	3.22	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorobutanoic Acid	PFBA	0.0679	67.9	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	PFECA-F	PFECA-F	0.00340	3.4	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00204	2.04	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00679	6.79	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00679	6.79	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Hfpo Dimer Acid	HFPO-DA	0.555	555	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00679	6.79	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorododecanoic Acid	PFDoA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00679	6.79	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluoropentanoic Acid	PFPA	0.00461	4.61	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorohexanoic Acid	PFHxA	0.0141	14.1	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0203	20.3	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00849	8.49	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0424	42.4	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00340	3.4	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0170	17	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorodecanoic Acid	PFDA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluoroheptanoic Acid	PFHpA	0.0147	14.7	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW2Q23-OUTLET 001-A-041323	OUTLET 001	04/13/2023	Perfluorononanoic Acid	PFNA	0.00173	1.73	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Perfluorononanesulfonic Acid	PFNS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00342	3.42	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	PFOA	PFOA	0.379	379	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00684	6.84	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	PFECA-A	PFECA-A	0.00342	3.42	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0427	42.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	DONA	DONA	0.00684	6.84	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00378	3.78	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	PFECA B	PFECA B	0.00342	3.42	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	PFOS	PFOS	0.0355	35.5	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Perfluoroundecanoic Acid	PFUnA	0.00800	8	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Perfluorobutanoic Acid	PFBA	0.0392	39.2	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	PFECA-F	PFECA-F	0.00342	3.42	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Hfpo Dimer Acid	HFPO-DA	11.7	11700	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0171	17.1	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00684	6.84	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Perfluorododecanoic Acid	PFDoA	0.00565	5.65	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00684	6.84	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00408	4.08	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0523-OUTLET 001-A-050423	OUTLET 001	05/04/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00171	1.71	N	U		LIQUID	FS	Other

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00302	3.02	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	DONA	DONA	0.00695	6.95	N	U,cn		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	PFECA-A	PFECA-A	0.00348	3.48	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0434	43.4	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	PFOS	PFOS	0.00920	9.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorobutanoic Acid	PFBA	0.0209	20.9	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	PFECA-F	PFECA-F	0.00348	3.48	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00232	2.32	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Hfpo Dimer Acid	HFPO-DA	0.955	955	Y	^2		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0174	17.4	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorododecanoic Acid	PFDoA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluoropentanoic Acid	PFPA	0.00909	9.09	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorohexanoic Acid	PFHxA	0.0274	27.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0214	21.4	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00869	8.69	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0434	43.4	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00348	3.48	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0174	17.4	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorodecanoic Acid	PFDA	0.00221	2.21	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluoroheptanoic Acid	PFHpA	0.0108	10.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW3Q23-OUTLET 001-A-071323	OUTLET 001	07/13/2023	Perfluorononanoic Acid	PFNA	0.00256	2.56	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorononanesulfonic Acid	PFNS	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00359	3.59	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	PFOA	PFOA	0.473	473	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	PFECA-A	PFECA-A	0.00359	3.59	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0449	44.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	DONA	DONA	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	PFECA B	PFECA B	0.00359	3.59	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00417	4.17	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	PFOS	PFOS	0.00305	3.05	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluoroundecanoic Acid	PFUnA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorobutanoic Acid	PFBA	0.0113	11.3	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	PFECA-F	PFECA-F	0.00359	3.59	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Hfpo Dimer Acid	HFPO-DA	0.665	665	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0180	18	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorododecanoic Acid	PFDoA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00226	2.26	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluoropentanoic Acid	PFPA	0.00439	4.39	Y		J	Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorohexanoic Acid	PFHxA	0.0148	14.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0237	23.7	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00899	8.99	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorotetradecanoic Acid	PFTeA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorotridecanoic Acid	PFTriA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorooctane Sulfonamide	PFOSA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0449	44.9	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00359	3.59	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0180	18	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorodecanoic Acid	PFDA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluoroheptanoic Acid	PFHpA	0.0137	13.7	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0823-OUTLET 001-A	OUTLET 001	08/03/2023	Perfluorononanoic Acid	PFNA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00333	3.33	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	PFOA	PFOA	0.765	765	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00666	6.66	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorononanesulfonic Acid	PFNS	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	PFECA-A	PFECA-A	0.00333	3.33	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0416	41.6	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	DONA	DONA	0.00666	6.66	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	PFECA B	PFECA B	0.00333	3.33	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00372	3.72	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	PFOS	PFOS	0.0114	11.4	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluoroundecanoic Acid	PFUnA	0.00631	6.31	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorobutanoic Acid	PFBA	0.0666	66.6	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	PFECA-F	PFECA-F	0.00333	3.33	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Hfpo Dimer Acid	HFPO-DA	3.16	3160	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0167	16.7	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00666	6.66	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorododecanoic Acid	PFDoA	0.00505	5.05	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00666	6.66	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00235	2.35	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00666	6.66	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00666	6.66	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluoropentanoic Acid	PFPA	0.0272	27.2	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorohexanoic Acid	PFHxA	0.129	129	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0234	23.4	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00833	8.33	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorotetradecanoic Acid	PFTeA	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorotridecanoic Acid	PFTriA	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorooctane Sulfonamide	PFOSA	0.00167	1.67	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0416	41.6	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00333	3.33	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0167	16.7	N	U,cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorodecanoic Acid	PFDA	0.0523	52.3	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluoroheptanoic Acid	PFHpA	0.122	122	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW0923-OUTLET 001-A-090723	OUTLET 001	09/07/2023	Perfluorononanoic Acid	PFNA	0.0382	38.2	Y	cn		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	PFOA	PFOA	0.547	547	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Perfluorononanesulfonic Acid	PFNS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0437	43.7	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	PFECA-A	PFECA-A	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	DONA	DONA	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00438	4.38	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	PFECA B	PFECA B	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	PFOS	PFOS	0.00354	3.54	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Perfluoroundecanoic Acid	PFUnA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Perfluorobutanoic Acid	PFBA	0.0159	15.9	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	PFECA-F	PFECA-F	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00236	2.36	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Hfpo Dimer Acid	HFPO-DA	0.783	783	Y			LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0175	17.5	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	Perfluorododecanoic Acid	PFDoA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001-A-100523	OUTLET 001	10/05/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.27256012	-81.6637115
SW4Q23-OUTLET 001

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Hfpo Dimer Acid	HFPO-DA	1.45	1450	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00363	3.63	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00363	3.63	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00350	3.5	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorobutanoic Acid	PFBA	0.0121	12.1	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorodecanoic Acid	PFDA	0.0472	47.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorododecanoic Acid	PFDoA	0.00197	1.97	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluoroheptanoic Acid	PFHpA	0.0202	20.2	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0217	21.7	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorohexanoic Acid	PFHxA	0.0458	45.8	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorononanesulfonic Acid	PFNS	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorononanoic Acid	PFNA	0.0123	12.3	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorooctane Sulfonamide	PFOSA	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00233	2.33	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluoropentanoic Acid	PFPA	0.0115	11.5	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorotetradecanoic Acid	PFTeA	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluorotridecanoic Acid	PFTriA	0.00182	1.82	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	Perfluoroundecanoic Acid	PFUnA	0.00284	2.84	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	PFECA B	PFECA B	0.00363	3.63	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	PFECA-A	PFECA-A	0.00363	3.63	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	PFECA-F	PFECA-F	0.00363	3.63	N	U		Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	PFOA	PFOA	0.292	292	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
SW1223-OUTLET 001-A	OUTLET 001	12/07/2023	PFOS	PFOS	0.0181	18.1	Y			Liquid	FS	Other liquid	39.27256012	-81.6637115
Outfall002-082118-2	OUTLET 002	08/21/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00093	0.93	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00093	0.93	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorobutane Sulfonic Acid	PFBS	0.006	6	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.008	8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFOA	PFOA	8.6	8600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorononanesulfonic Acid	PFNS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0043	4.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.008	8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFOS	PFOS	0.014	14	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluoroundecanoic Acid	PFUnA	0.0069	6.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorobutanoic Acid	PFBA	0.87	870	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	NaDONA	NaDONA	0.00093	0.93	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.008	8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0036	3.6	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorodecane Sulfonic Acid	PFDS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFMOAA	PFMOAA	0.29	290	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFMOAA	PFMOAA	0.28	280	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Hfpo Dimer Acid	HFPO-DA	6.5	6500	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.019	19	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorododecanoic Acid	PFDoA	0.0047	4.7	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0053	5.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00089	0.89	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluoropentanoic Acid	PFPA	0.084	84	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorohexanoic Acid	PFHxA	0.27	270	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorotetradecanoic Acid	PFTeA	0.0036	3.6	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorotridecanoic Acid	PFTriA	0.011	11	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorooctane Sulfonamide	PFOSA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorooctadecanoic Acid	PFODA	0.0023	2.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorodecanoic Acid	PFDA	0.033	33	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluoroheptanoic Acid	PFHpA	0.2	200	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	Perfluorononanoic Acid	PFNA	0.043	43	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
Outfall002-082118-2	OUTLET 002	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
DA0818-OUTLET 002-082318	OUTLET 002	08/23/2018	Hfpo Dimer Acid	HFPO-DA	0.6	600	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
DA0818-OUTLET 002-083018	OUTLET 002	08/30/2018	Hfpo Dimer Acid	HFPO-DA	6.3	6300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0918-OUTLET 002-090618	OUTLET 002	09/06/2018	PFOA	PFOA	9.4	9400	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0918-OUTLET 002-090618	OUTLET 002	09/06/2018	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0918-OUTLET 002-091418	OUTLET 002	09/14/2018	PFOA	PFOA	11.0	11000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0918-OUTLET 002-091418	OUTLET 002	09/14/2018	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00029	0.29	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00038	0.38	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFOA	PFOA	8.4	8400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.00075	0.75	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0075	7.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.0048	4.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.001	1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0075	7.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFOS	PFOS	0.013	13	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.001	1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorobutanoic Acid	PFBA	0.076	76	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	NaDONA	NaDONA	0.00029	0.29	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0029	2.9	Y	J	J	Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.003	3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.022	22	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.0012	1.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.005	5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00075	0.75	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluoropentanoic Acid	PFPA	0.1	100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorohexanoic Acid	PFHxA	0.26	260	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.017	17	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.00075	0.75	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorotridecanoic Acid	PFTriA	0.001	1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.0012	1.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.0012	1.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorodecanoic Acid	PFDA	0.031	31	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.19	190	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	Perfluorononanoic Acid	PFNA	0.033	33	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
OUTFALL_002-0918	OUTLET 002	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0918-OUTLET 002-092018	OUTLET 002	09/20/2018	PFOA	PFOA	9.3	9300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0918-OUTLET 002-092018	OUTLET 002	09/20/2018	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0918-OUTLET 002-092718	OUTLET 002	09/27/2018	PFOA	PFOA	8.3	8300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0918-OUTLET 002-092718	OUTLET 002	09/27/2018	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1018-OUTLET 002-100418	OUTLET 002	10/04/2018	PFOA	PFOA	8.8	8800	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1018-OUTLET 002-100418	OUTLET 002	10/04/2018	Hfpo Dimer Acid	HFPO-DA	3.1	3100	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1018-OUTLET 002-101118	OUTLET 002	10/11/2018	PFOA	PFOA	11.0	11000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1018-OUTLET 002-101118	OUTLET 002	10/11/2018	Hfpo Dimer Acid	HFPO-DA	10.0	10000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1018-OUTLET 002-101818	OUTLET 002	10/18/2018	PFOA	PFOA	8.7	8700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1018-OUTLET 002-101818	OUTLET 002	10/18/2018	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			LIQUID	F

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0319-OUTLET 002-032819	OUTLET 002	03/28/2019	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW-319-OUTLET 002-040419	OUTLET 002	04/04/2019	PFOA	PFOA	7.8	7800	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW-319-OUTLET 002-040419	OUTLET 002	04/04/2019	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-041119	OUTLET 002	04/11/2019	PFOA	PFOA	7.7	7700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-041119	OUTLET 002	04/11/2019	Hfpo Dimer Acid	HFPO-DA	3.2	3200	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-041819	OUTLET 002	04/18/2019	PFOA	PFOA	8.0	8000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-041819	OUTLET 002	04/18/2019	Hfpo Dimer Acid	HFPO-DA	3.2	3200	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-042519	OUTLET 002	04/25/2019	PFOA	PFOA	8.6	8600	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-042519	OUTLET 002	04/25/2019	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-050219	OUTLET 002	05/02/2019	PFOA	PFOA	7.3	7300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-050219	OUTLET 002	05/02/2019	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-050919	OUTLET 002	05/09/2019	PFOA	PFOA	9.7	9700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0419-OUTLET 002-050919	OUTLET 002	05/09/2019	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0519-OUTLET 002-051619	OUTLET 002	05/16/2019	PFOA	PFOA	4.5	4500	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0519-OUTLET 002-051619	OUTLET 002	05/16/2019	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0519-OUTLET 002-052319	OUTLET 002	05/23/2019	PFOA	PFOA	12.0	12000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0519-OUTLET 002-052319	OUTLET 002	05/23/2019	Hfpo Dimer Acid	HFPO-DA	4.4	4400	Y	B	B	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0519-OUTLET 002-053019	OUTLET 002	05/30/2019	PFOA	PFOA	14.0	14000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0519-OUTLET 002-053019	OUTLET 002	05/30/2019	Hfpo Dimer Acid	HFPO-DA	5.6	5600	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0619-OUTLET 002-060619	OUTLET 002	06/06/2019	PFOA	PFOA	8.6	8600	Y	H		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0619-OUTLET 002-060619	OUTLET 002	06/06/2019	Hfpo Dimer Acid	HFPO-DA	5.1	5100	Y	H	J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.00095	0.95	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	DONA	DONA	0.00095	0.95	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0054	5.4	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	PFOS	PFOS	0.011	11	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0028	2.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	<	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluorohexanoic Acid	PFHxA	0.23	230	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluorotetradecanoic Acid	PFTeA	0.00095	0.95	N	<	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluorotridecanoic Acid	PFTriA	0.009	9	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0028	2.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluorodecanoic Acid	PFDA	0.048	48	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluoroheptanoic Acid	PFHpA	0.19	190	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q19-OUTLET 002-A	OUTLET 002	06/06/2019	Perfluorononanoic Acid	PFNA	0.043	43	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0619-OUTLET 002-061319	OUTLET 002	06/13/2019	PFOA	PFOA	10.0	10000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0619-OUTLET 002-061319	OUTLET 002	06/13/2019	Hfpo Dimer Acid	HFPO-DA	4.9	4900	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0619-OUTLET 002-062019	OUTLET 002	06/20/2019	PFOA	PFOA	10.0	10000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0619-OUTLET 002-062019	OUTLET 002	06/20/2019	Hfpo Dimer Acid	HFPO-DA	6.0	6000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0619-OUTLET 002-062719	OUTLET 002	06/27/2019	PFOA	PFOA	0.31	310	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0619-OUTLET 002-062719	OUTLET 002	06/27/2019	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0719-OUTLET 002-070219	OUTLET 002	07/02/2019	PFOA	PFOA	8.0	8000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0719-OUTLET 002-070219	OUTLET 002	07/02/2019	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0719-OUTLET 002-071119	OUTLET 002	07/11/2019	PFOA	PFOA	4.0	4000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0719-OUTLET 002-071119	OUTLET 002	07/11/2019	Hfpo Dimer Acid	HFPO-DA	8.0	8000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0719-OUTLET 002-071819	OUTLET 002	07/18/2019	PFOA	PFOA	5.7	5700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0719-OUTLET 002-071819	OUTLET 002	07/18/2019	Hfpo Dimer Acid	HFPO-DA	2.7	2700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0719-OUTLET 002-072519	OUTLET 002	07/25/2019	PFOA	PFOA	6.3	6300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0719-OUTLET 002-072519	OUTLET 002	07/25/2019	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0819-OUTLET 002-080119	OUTLET 002	08/01/2019	PFOA	PFOA	7.3	7300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0819-OUTLET 002-080119	OUTLET 002	08/01/2019	Hfpo Dimer Acid	HFPO-DA	4.4	4400	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0819-OUTLET 002-080819	OUTLET 002	08/08/2019	PFOA	PFOA	6.1	6100	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0819-OUTLET 002-080819	OUTLET 002	08/08/2019	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0819-OUTLET 002-081519	OUTLET 002	08/15/2019	PFOA	PFOA	7.3	7300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0819-OUTLET 002-081519	OUTLET 002	08/15/2019	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0519-OUTLET 002-082219	OUTLET 002	08/22/2019	PFOA	PFOA	6.6	6600	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0519-OUTLET 002-082219	OUTLET 002	08/22/2019	Hfpo Dimer Acid	HFPO-DA	3.6	3600	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0819-OUTLET 002-082919	OUTLET 002	08/29/2019	PFOA	PFOA	11.0	11000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0819-OUTLET 002-082919	OUTLET 002	08/29/2019	Hfpo Dimer Acid	HFPO-DA	4.8	4800	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0919-OUTLET 002-090519	OUTLET 002	09/05/2019	PFOA	PFOA	9.3	9300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0919-OUTLET 002-090519	OUTLET 002	09/05/2019	Hfpo Dimer Acid	HFPO-DA	3.1	3100	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002	OUTLET 002	09/12/2019	PFOA	PFOA	9.0	9000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002	OUTLET 002	09/12/2019	Hfpo Dimer Acid	HFPO-DA	4.0	4000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0052	5.2	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	DONA	DONA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	PFOS	PFOS	0.01	10	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluorohexanoic Acid	PFHxA	0.19	190	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluorotridecanoic Acid	PFTriA	0.0066	6.6	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluorodecanoic Acid	PFDA	0.055	55	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluoroheptanoic Acid	PFHpA	0.15	150	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q19-OUTLET 002-A	OUTLET 002	09/12/2019	Perfluorononanoic Acid	PFNA	0.047	47	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0919-OUTLET 002-091919	OUTLET 002	09/19/2019	PFOA	PFOA	4.2	4200	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0919-OUTLET 002-091919	OUTLET 002	09/19/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0919-OUTLET 002-092519	OUTLET 002	09/25/2019	PFOA	PFOA	4.8	4800	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0919-OUTLET 002-092519	OUTLET 002	09/25/2019	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0919-OUTLET 002-100319	OUTLET 002	10/03/2019	PFOA	PFOA	4.8	4800	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0919-OUTLET 002-100319	OUTLET 002	10/03/2019	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1019-OUTLET 002	OUTLET 002	10/10/2019	PFOA	PFOA	7.2	7200	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1019-OUTLET 002	OUTLET 002	10/10/2019	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1019-OUTLET 002-101719	OUTLET 002	10/17/2019	PFOA	PFOA	7.7	7700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1019-OUTLET 002-101719	OUTLET 002	10/17/2019	Hfpo Dimer Acid	HFPO-DA	3.4	3400	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1019-OUTLET 002-102419	OUTLET 002	10/24/2019	PFOA	PFOA	6.1	6100	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1019-OUTLET 002-102419	OUTLET 002	10/24/2019	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1019-OUTLET 002-103119	OUTLET 002	10/31/2019	PFOA	PFOA	5.6	5600	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1019-OUTLET 002-103119	OUTLET 002	10/31/2019	Hfpo Dimer Acid	HFPO-DA	5.7	5700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1119-OUTLET 002	OUTLET 002	11/07/2019	PFOA	PFOA	5.9	5900	Y	*	J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1119-OUTLET 002	OUTLET 002	11/07/2019	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1119-OUTLET 002-111419	OUTLET 002	11/14/2019	PFOA	PFOA	6.3	6300	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1119-OUTLET 002-111419	OUTLET 002	11/14/2019	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1119-OUTLET 002-112119	OUTLET 002	11/21/2019	PFOA	PFOA	6.8	6800	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1119-OUTLET 002-112119	OUTLET 002	11/21/2019	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1119-OUTLET 002-112619	OUTLET 002	11/26/2019	PFOA	PFOA	3.9	3900	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1119-OUTLET 002-112619	OUTLET 002	11/26/2019	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1219-OUTLET 002-120519	OUTLET 002	12/05/2019	PFOA	PFOA	6.0	6000	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1219-OUTLET 002-120519	OUTLET 002	12/05/2019	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1219-OUTLET 002-121219	OUTLET 002	12/12/2019	PFOA	PFOA	5.7	5700	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1219-OUTLET 002-121219	OUTLET 002	12/12/2019	Hfpo Dimer Acid	HFPO-DA	6.5	6500	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1219-OUTLET 002-121719	OUTLET 002	12/17/2019	PFOA	PFOA	3.4	3400	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1219-OUTLET 002-121719	OUTLET 002	12/17/2019	Hfpo Dimer Acid	HFPO-DA	8.2	8200	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1219-OUTLET 002-122719	OUTLET 002	12/27/2019	PFOA	PFOA	5.8	5800	Y	B		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1219-OUTLET 002-122719	OUTLET 002	12/27/2019	Hfpo Dimer Acid	HFPO-DA	5.3	5300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-010320	OUTLET 002	01/03/2020	PFOA	PFOA	3.5	3500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-010320	OUTLET 002	01/03/2020	Hfpo Dimer Acid	HFPO-DA	6.7	6700	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-010920	OUTLET 002	01/09/2020	PFOA	PFOA	5.1	5100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-010920	OUTLET 002	01/09/2020	Hfpo Dimer Acid	HFPO-DA	3.1	3100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-011620	OUTLET 002	01/16/2020	PFOA	PFOA	5.5	5500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-011620	OUTLET 002	01/16/2020	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-012320	OUTLET 002	01/24/2020	PFOA	PFOA	3.8	3800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-012320	OUTLET 002	01/24/2020	Hfpo Dimer Acid	HFPO-DA	8.6	8600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-013020	OUTLET 002	01/30/2020	PFOA	PFOA	3.5	3500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0120-OUTLET 002-013020	OUTLET 002	01/30/2020	Hfpo Dimer Acid	HFPO-DA	4.1	4100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-020620	OUTLET 002	02/06/2020	PFOA	PFOA	4.3	4300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-020620	OUTLET 002	02/06/2020	Hfpo Dimer Acid	HFPO-DA	4.3	4300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002	OUTLET 002	02/06/2020	PFOA	PFOA	4.3	4300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002	OUTLET 002	02/06/2020	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-021320	OUTLET 002	02/13/2020	PFOA	PFOA	4.4	4400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-021320	OUTLET 002	02/13/2020	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-022020	OUTLET 002	02/20/2020	PFOA	PFOA	3.9	3900	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-022020	OUTLET 002	02/20/2020	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y	*	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-022720	OUTLET 002	02/27/2020	PFOA	PFOA	5.1	5100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-022720	OUTLET 002	02/27/2020	Hfpo Dimer Acid	HFPO-DA	12	12000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0320-OUTLET 002-030520	OUTLET 002	03/05/2020	PFOA	PFOA	4.5	4500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0320-OUTLET 002-030520	OUTLET 002	03/05/2020	Hfpo Dimer Acid	HFPO-DA	3.8	3800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0038	3.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	DONA	DONA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	PFOS	PFOS	0.0068	6.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluorohexanoic Acid	PFHxA	0.11	110	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.012	12	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluorotridecanoic Acid	PFTriA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluorodecanoic Acid	PFDA	0.032	32	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluoroheptanoic Acid	PFHpA	0.076	76	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q20-OUTLET 002-A	OUTLET 002	03/05/2020	Perfluorononanoic Acid	PFNA	0.024	24	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0320-OUTLET 002-031220	OUTLET 002	03/12/2020	PFOA	PFOA	4.9	4900	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0320-OUTLET 002-031220	OUTLET 002	03/12/2020	Hfpo Dimer Acid	HFPO-DA	3.5	3500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-031920	OUTLET 002	03/19/2020	PFOA	PFOA	6.2	6200	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0220-OUTLET 002-031920	OUTLET 002	03/19/2020	Hfpo Dimer Acid	HFPO-DA	9.3	9300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0320-OUTLET 002-032620	OUTLET 002	03/26/2020	PFOA	PFOA	5.0	5000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0320-OUTLET 002-032620	OUTLET 002	03/26/2020	Hfpo Dimer Acid	HFPO-DA	3.8	3800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0420 OUTLET 002-040220	OUTLET 002	04/02/2020	PFOA	PFOA	3.4	3400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0420 OUTLET 002-040220	OUTLET 002	04/02/2020	Hfpo Dimer Acid	HFPO-DA	4.8	4800	Y			Liquid	FS	Other liquid

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0720-OUTLET 002-072320	OUTLET 002	07/23/2020	Hfpo Dimer Acid	HFPO-DA	12	12000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0720-OUTLET 002-073020	OUTLET 002	07/30/2020	PFOA	PFOA	11	11000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0720-OUTLET 002-073020	OUTLET 002	07/30/2020	Hfpo Dimer Acid	HFPO-DA	7.9	7900	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0820-OUTLET 002-080620	OUTLET 002	08/06/2020	PFOA	PFOA	8.5	8500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0820-OUTLET 002-080620	OUTLET 002	08/06/2020	Hfpo Dimer Acid	HFPO-DA	6.0	6000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0820-OUTLET 002-081320	OUTLET 002	08/13/2020	PFOA	PFOA	9.8	9800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0820-OUTLET 002-081320	OUTLET 002	08/13/2020	Hfpo Dimer Acid	HFPO-DA	5.8	5800	Y	*	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0058	5.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	PFOS	PFOS	0.014	14	Y		B	Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluorohexanoic Acid	PFHxA	0.23	230	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.021	21	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluorotridecanoic Acid	PFTriA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluorodecanoic Acid	PFDA	0.086	86	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluoroheptanoic Acid	PFHpA	0.21	210	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q20-OUTLET 002-A	OUTLET 002	08/13/2020	Perfluorononanoic Acid	PFNA	0.061	61	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0820-OUTLET 002-082020	OUTLET 002	08/20/2020	PFOA	PFOA	13	13000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0820-OUTLET 002-082020	OUTLET 002	08/20/2020	Hfpo Dimer Acid	HFPO-DA	7.9	7900	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0820-OUTLET 002-082720	OUTLET 002	08/27/2020	PFOA	PFOA	7.4	7400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0820-OUTLET 002-082720	OUTLET 002	08/27/2020	Hfpo Dimer Acid	HFPO-DA	6.3	6300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0920-OUTLET 002-090320	OUTLET 002	09/03/2020	PFOA	PFOA	8.8	8800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0920-OUTLET 002-090320	OUTLET 002	09/03/2020	Hfpo Dimer Acid	HFPO-DA	8.4	8400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0920-OUTLET 002-091020	OUTLET 002	09/10/2020	PFOA	PFOA	7.5	7500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0920-OUTLET 002-091020	OUTLET 002	09/10/2020	Hfpo Dimer Acid	HFPO-DA	5.6	5600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0920-OUTLET 002-091720	OUTLET 002	09/17/2020	PFOA	PFOA	5.4	5400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0920-OUTLET 002-091720	OUTLET 002	09/17/2020	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0920-OUTLET 002-092420	OUTLET 002	09/24/2020	PFOA	PFOA	9.4	9400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0920-OUTLET 002-092420	OUTLET 002	09/24/2020	Hfpo Dimer Acid	HFPO-DA	5.8	5800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-100120	OUTLET 002	10/01/2020	PFOA	PFOA	14	14000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-100120	OUTLET 002	10/01/2020	Hfpo Dimer Acid	HFPO-DA	12	12000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-100820	OUTLET 002	10/08/2020	PFOA	PFOA	1.5	1500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-100820	OUTLET 002	10/08/2020	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-101520	OUTLET 002	10/15/2020	PFOA	PFOA	0.62	620	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-101520	OUTLET 002	10/15/2020	Hfpo Dimer Acid	HFPO-DA	0.65	650	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-102220	OUTLET 002	10/22/2020	PFOA	PFOA	0.41	410	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-102220	OUTLET 002	10/22/2020	Hfpo Dimer Acid	HFPO-DA	0.18	180	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-102920	OUTLET 002	10/29/2020	PFOA	PFOA	1.7	1700	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1020-OUTLET 002-102920	OUTLET 002	10/29/2020	Hfpo Dimer Acid	HFPO-DA	33	33000	Y	*,*1	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1120-OUTLET 002-1105	OUTLET 002	11/05/2020	PFOA	PFOA	0.45	450	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1120-OUTLET 002-1105	OUTLET 002	11/05/2020	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1120-OUTLET 002-1112	OUTLET 002	11/12/2020	PFOA	PFOA	8.5	8500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1120-OUTLET 002-1112	OUTLET 002	11/12/2020	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1120-OUTLET 002-111920	OUTLET 002	11/19/2020	PFOA	PFOA	5.9	5900	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1120-OUTLET 002-111920	OUTLET 002	11/19/2020	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0065	6.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	PFOS	PFOS	0.014	14	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluorobutanoic Acid	PFBA	0.065	65	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluoropentanoic Acid	PFPA	0.055	55	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluorohexanoic Acid	PFHxA	0.15	150	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluorodecanoic Acid	PFDA	0.063	63	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q20-OUTLET 002-A	OUTLET 002	11/19/2020	Perfluorononanoic Acid	PFNA	0.052	52	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1120-OUTLET 002-112420	OUTLET 002	11/24/2020	PFOA	PFOA	4.1	4100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1120-OUTLET 002-112420	OUTLET 002	11/24/2020	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-120320	OUTLET 002	12/03/2020	PFOA	PFOA	5.4	5400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-120320	OUTLET 002	12/03/2020	Hfpo Dimer Acid	HFPO-DA	10	10000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-121020	OUTLET 002	12/10/2020	PFOA	PFOA	4.5	4500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-121020	OUTLET 002	12/10/2020	Hfpo Dimer Acid	HFPO-DA	8.7	8700	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-121720	OUTLET 002	12/17/2020	PFOA	PFOA	7.8	7800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-121720	OUTLET 002	12/17/2020	Hfpo Dimer Acid	HFPO-DA	7.6	7600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-122220	OUTLET 002	12/22/2020	PFOA	PFOA	7.8	7800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-122220	OUTLET 002	12/22/2020	Hfpo Dimer Acid	HFPO-DA	5.5	5500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-122920	OUTLET 002	12/29/2020	PFOA	PFOA	9.6	9600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1220-OUTLET 002-122920	OUTLET 002	12/29/2020	Hfpo Dimer Acid	HFPO-DA	3.9	3900	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0121-OUTLET 002-010721	OUTLET 002	01/07/2021	PFOA	PFOA	8.9	8900	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0121-OUTLET 002-010721	OUTLET 002	01/07/2021	Hfpo Dimer Acid	HFPO-DA	22	22000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0121-OUTLET 002-011421	OUTLET 002	01/14/2021	PFOA	PFOA	7.6	7600	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0121-OUTLET 002-011421	OUTLET 002	01/14/2021	Hfpo Dimer Acid	HFPO-DA	6.5	6500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0121-OUTLET 002-012121	OUTLET 002	01/21/2021	PFOA	PFOA	8.1	8100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0121-OUTLET 002-012121	OUTLET 002	01/21/2021	Hfpo Dimer Acid	HFPO-DA	4.3	4300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0083	8.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	DONA	DONA	0.0017	1.7	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	PFOS	PFOS	0.015	15	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluorobutanoic Acid	PFBA	0.93	930	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	PFOA	PFOA	7.3	7300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Hfpo Dimer Acid	HFPO-DA	4.1	4100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluoropentanoic Acid	PFPA	0.081	81	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluorohexanoic Acid	PFHxA	0.27	270	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.025	25	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluorodecanoic Acid	PFDA	0.070	70	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q21-OUTLET 002-A-012121	OUTLET 002	01/21/2021	Perfluorononanoic Acid	PFNA	0.057	57	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0121-OUTLET 002-012821	OUTLET 002	01/28/2021	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.2719421	-81.670189
SW0121-OUTLET 002-012821	OUTLET 002	01/28/2021	Hfpo Dimer Acid	HFPO-DA	5.5	5500	Y			Liquid	FS	Drinking Water	39.2719421	-81.670189
SW0121-OUTLET 002-012921	OUTLET 002	01/29/2021	Hfpo Dimer Acid	HFPO-DA	5.1	5100	Y			Liquid	FS	Drinking Water	39.2719421	-81.670189
SW0121-OUTLET 002-013021	OUTLET 002	01/30/2021	Hfpo Dimer Acid	HFPO-DA	5.4	5400	Y			Liquid	FS	Drinking Water	39.2719421	-81.670189
SW0121-OUTLET 002-013121	OUTLET 002	01/31/2021	Hfpo Dimer Acid	HFPO-DA	35	35000	Y			Liquid	FS	Drinking Water	39.2719421	-81.670189
SW0121-OUTLET 002-013121	OUTLET 002	01/31/2021	Hfpo Dimer Acid	HFPO-DA	25	25000	Y			Liquid	FS	Drinking Water	39.2719421	-81.670189
SW0221-OUTLET 002-020421	OUTLET 002	02/04/2021	PFOA	PFOA	6.0	6000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0221-OUTLET 002-020421	OUTLET 002	02/04/2021	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0221-OUTLET 002-021121	OUTLET 002	02/11/2021	PFOA	PFOA	9.4	9400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0221-OUTLET 002-021121	OUTLET 002	02/11/2021	Hfpo Dimer Acid	HFPO-DA	32	32000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0221-OUTLET 002-021821	OUTLET 002	02/18/2021	PFOA	PFOA	6.6	6600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0221-OUTLET 002-021821	OUTLET 002	02/18/2021	Hfpo Dimer Acid	HFPO-DA	3.6	3600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0221-OUTLET 002-022621	OUTLET 002	02/26/2021	PFOA	PFOA	7.9	7900	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0221-OUTLET 002-022621	OUTLET 002	02/26/2021	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0321-OUTLET 002-030421	OUTLET 002	03/04/2021	PFOA	PFOA	9.7	9700	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0321-OUTLET 002-030421	OUTLET 002	03/04/2021	Hfpo Dimer Acid	HFPO-DA	3.6	3600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0321-OUTLET 002-031121	OUTLET 002	03/11/2021	PFOA	PFOA	5.6	5600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0321-OUTLET 002-031121	OUTLET 002	03/11/2021	Hfpo Dimer Acid	HFPO-DA	2.7	2700	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0321-OUTLET 002-031821	OUTLET 002	03/18/2021	PFOA	PFOA	7.4	7400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0321-OUTLET 002-031821	OUTLET 002	03/18/2021	Hfpo Dimer Acid	HFPO-DA	5.2	5200	Y	*1	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0321-OUTLET 002-032521	OUTLET 002	03/25/2021	PFOA	PFOA	7.5	7500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0321-OUTLET 002-032521	OUTLET 002	03/25/2021	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0421-OUTLET 002-040121	OUTLET 002	04/01/2021	PFOA	PFOA	7.2	7200	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0421-OUTLET 002-040121	OUTLET 002	04/01/2021	Hfpo Dimer Acid	HFPO-DA	52	52000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0421-OUTLET 002-040621	OUTLET 002	04/06/2021	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0421-OUTLET 002-040721	OUTLET 002	04/07/2021	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0421-OUTLET 002-040821	OUTLET 002	04/08/2021	PFOA	PFOA	7.3	7300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0421-OUTLET 002-040821	OUTLET 002	04/08/2021	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0068	6.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	PFOS	PFOS	0.015	15	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluorobutanoic Acid	PFBA	0.088	88	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	PFOA	PFOA	8.1	8100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Hfpo Dimer Acid	HFPO-DA	4.0	4000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluoropentanoic Acid	PFPA	0.074	74	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluorohexanoic Acid	PFHxA	0.25	250	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.021	21	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluorotridecanoic Acid	PFTriA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021	Perfluorodecanoic Acid	PFDA	0.076	76	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW2Q21-OUTLET 002-A	OUTLET 002	04/08/2021

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW3Q21-OUTLET 002-A-071521	OUTLET 002	07/15/2021	Perfluoropentanoic Acid	PFPA	0.085	85	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q21-OUTLET 002-A-071521	OUTLET 002	07/15/2021	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q21-OUTLET 002-A-071521	OUTLET 002	07/15/2021	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q21-OUTLET 002-A-071521	OUTLET 002	07/15/2021	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0721-OUTLET 002-072221	OUTLET 002	07/22/2021	PFOA	PFOA	5.4	5400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0721-OUTLET 002-072221	OUTLET 002	07/22/2021	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0721-OUTLET 002-072921	OUTLET 002	07/29/2021	PFOA	PFOA	5.1	5100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0721-OUTLET 002-072921	OUTLET 002	07/29/2021	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0821-OUTLET 002-080521	OUTLET 002	08/05/2021	PFOA	PFOA	4.4	4400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0821-OUTLET 002-080521	OUTLET 002	08/05/2021	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0821-OUTLET 002-081221	OUTLET 002	08/12/2021	PFOA	PFOA	4.7	4700	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0821-OUTLET 002-081221	OUTLET 002	08/12/2021	Hfpo Dimer Acid	HFPO-DA	4.2	4200	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0821-OUTLET 002-081921	OUTLET 002	08/19/2021	PFOA	PFOA	5.5	5500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0821-OUTLET 002-081921	OUTLET 002	08/19/2021	Hfpo Dimer Acid	HFPO-DA	12	12000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0821-OUTLET 002-082621	OUTLET 002	08/26/2021	PFOA	PFOA	5.0	5000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0821-OUTLET 002-082621	OUTLET 002	08/26/2021	Hfpo Dimer Acid	HFPO-DA	4.4	4400	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-090221	OUTLET 002	09/02/2021	PFOA	PFOA	2.8	2800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-090221	OUTLET 002	09/02/2021	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-090921	OUTLET 002	09/09/2021	PFOA	PFOA	0.59	590	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-090921	OUTLET 002	09/09/2021	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-091621	OUTLET 002	09/16/2021	PFOA	PFOA	3.2	3200	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-091621	OUTLET 002	09/16/2021	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-092321	OUTLET 002	09/23/2021	PFOA	PFOA	2.1	2100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-092321	OUTLET 002	09/23/2021	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-093021	OUTLET 002	09/30/2021	PFOA	PFOA	3.8	3800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0921-OUTLET 002-093021	OUTLET 002	09/30/2021	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1021-OUTLET 002-100721	OUTLET 002	10/07/2021	PFOA	PFOA	3.1	3100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1021-OUTLET 002-100721	OUTLET 002	10/07/2021	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0052	5.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	PFOS	PFOS	0.0075	7.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluorobutanoic Acid	PFBA	0.024	24	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	PFOA	PFOA	1.6	1600	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluoropentanoic Acid	PFPA	0.044	44	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluorohexanoic Acid	PFHxA	0.061	61	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0099	9.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluorotridecanoic Acid	PFTriA	0.0038	3.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluorodecanoic Acid	PFDA	0.023	23	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluoroheptanoic Acid	PFHpA	0.047	47	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW4Q21-OUTLET 002-A	OUTLET 002	10/14/2021	Perfluorononanoic Acid	PFNA	0.015	15	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1021-OUTLET 002-102121	OUTLET 002	10/21/2021	PFOA	PFOA	0.57	570	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1021-OUTLET 002-102121	OUTLET 002	10/21/2021	Hfpo Dimer Acid	HFPO-DA	0.84	840	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1021-OUTLET 002-102821	OUTLET 002	10/28/2021	PFOA	PFOA	0.42	420	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1021-OUTLET 002-102821	OUTLET 002	10/28/2021	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1121-OUTLET 002-110421	OUTLET 002	11/04/2021	PFOA	PFOA	0.53	530	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1121-OUTLET 002-110421	OUTLET 002	11/04/2021	Hfpo Dimer Acid	HFPO-DA	0.83	830	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1121-OUTLET 002-111121	OUTLET 002	11/11/2021	PFOA	PFOA	0.51	510	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1121-OUTLET 002-111121	OUTLET 002	11/11/2021	Hfpo Dimer Acid	HFPO-DA	0.64	640	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1121-OUTLET 002-111821	OUTLET 002	11/18/2021	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1121-OUTLET 002-111821	OUTLET 002	11/18/2021	Hfpo Dimer Acid	HFPO-DA	0.44	440	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1121-OUTLET 002-112321	OUTLET 002	11/23/2021	PFOA	PFOA	0.31	310	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1121-OUTLET 002-112321	OUTLET 002	11/23/2021	Hfpo Dimer Acid	HFPO-DA	0.25	250	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-120221	OUTLET 002	12/02/2021	PFOA	PFOA	0.39	390	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-120221	OUTLET 002	12/02/2021	Hfpo Dimer Acid	HFPO-DA	0.57	570	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-120921	OUTLET 002	12/09/2021	PFOA	PFOA	0.48	480	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-120921	OUTLET 002	12/09/2021	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-121621	OUTLET 002	12/16/2021	PFOA	PFOA	0.31	310	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-121621	OUTLET 002	12/16/2021	Hfpo Dimer Acid	HFPO-DA	0.23	230	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-122121	OUTLET 002	12/21/2021	PFOA	PFOA	0.29	290	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-122121	OUTLET 002	12/21/2021	Hfpo Dimer Acid	HFPO-DA	6.2	6200	Y	cn	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-122921	OUTLET 002	12/29/2021	PFOA	PFOA	0.45	450	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1221-OUTLET 002-122921	OUTLET 002	12/29/2021	Hfpo Dimer Acid	HFPO-DA	8.6	8600	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW122-OUTLET 002-010622	OUTLET 002	01/06/2022	PFOA	PFOA	0.32	320	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW122-OUTLET 002-010622	OUTLET 002	01/06/2022	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0036	3.6	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	PFOS	PFOS	0.0036	3.6	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluorobutanoic Acid	PFBA	0.016	16	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	PFOA	PFOA	0.52	520	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluoropentanoic Acid	PFPA	0.010	10	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluorohexanoic Acid	PFHxA	0.030	30	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0044	4.4	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluorodecanoic Acid	PFDA	0.0021	2.1	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluoroheptanoic Acid	PFHpA	0.019	19	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q22-OUTLET 002-A-011322	OUTLET 002	01/13/2022	Perfluorononanoic Acid	PFNA	0.0039	3.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW122-OUTLET 002-012022	OUTLET 002	01/20/2022	PFOA	PFOA	0.47	470	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW122-OUTLET 002-012022	OUTLET 002	01/20/2022	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW122-OUTLET 002-012722	OUTLET 002	01/27/2022	PFOA	PFOA	0.38	380	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW122-OUTLET 002-012722	OUTLET 002	01/27/2022	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-020322	OUTLET 002	02/03/2022	PFOA	PFOA	0.53	530	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-020322	OUTLET 002	02/03/2022	Hfpo Dimer Acid	HFPO-DA	5.5	5500	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-021022	OUTLET 002	02/10/2022	PFOA	PFOA	0.45	450	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-021022	OUTLET 002	02/10/2022	Hfpo Dimer Acid	HFPO-DA	0.67	670	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0049	4.9	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	PFOA	PFOA	0.49	490	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	PFOS	PFOS	0.0045	4.5	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluorobutanoic Acid	PFBA	0.011	11	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Hfpo Dimer Acid	HFPO-DA	0.58	580	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluoropentanoic Acid	PFPA	0.0059	5.9	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluorohexanoic Acid	PFHxA	0.015	15	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluoroheptanoic Acid	PFHpA	0.013	13	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0222-OUTLET 002-A	OUTLET 002	02/16/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
SW222-OUTLET 002-021722	OUTLET 002	02/17/2022	PFOA	PFOA	0.51	510	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-021722	OUTLET 002	02/17/2022	Hfpo Dimer Acid	HFPO-DA	0.60	600	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-022222	OUTLET 002	02/22/2022	Hfpo Dimer Acid	HFPO-DA	3.5	3500	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-022322	OUTLET 002	02/23/2022	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-022422	OUTLET 002	02/24/2022	PFOA	PFOA	0.56	560	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-022422	OUTLET 002	02/24/2022	Hfpo Dimer Acid	HFPO-DA	0.73	730	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-022622	OUTLET 002	02/26/2022	Hfpo Dimer Acid	HFPO-DA	0.83	830	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-022722	OUTLET 002	02/27/2022	Hfpo Dimer Acid	HFPO-DA	0.53	530	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW222-OUTLET 002-022822	OUTLET 002	02/28/2022	Hfpo Dimer Acid	HFPO-DA	0.52	520	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW322-OUTLET 002-030322	OUTLET 002	03/03/2022	PFOA	PFOA	0.52	520	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW322-OUTLET 002-030322	OUTLET 002	03/03/2022	Hfpo Dimer Acid	HFPO-DA	0.98	980	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW322-OUTLET 002-031022	OUTLET 002	03/10/2022	PFOA	PFOA	0.63	630	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW322-OUTLET 002-031022	OUTLET 002	03/10/2022	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	PFOA	PFOA	0.38	380	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0032	3.2	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	PFOS	PFOS	0.0034	3.4	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluorobutanoic Acid	PFBA	0.0081	8.1	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Hfpo Dimer Acid	HFPO-DA	0.35	350	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluoropentanoic Acid	PFPA	0.0036	3.6	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluorohexanoic Acid	PFHxA	0.011	11	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.014	14	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0086	8.6	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0322-OUTLET 002-A	OUTLET 002	03/16/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
SW322-OUTLET 002-031722	OUTLET 002	03/17/2022	PFOA	PFOA	0.76	760	Y	cn		Liquid	FS	Other

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	Perfluoropentanoic Acid	PFPA	0.0039	3.9	Y	cn		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	Perfluorohexanoic Acid	PFHxA	0.014	14	Y	cn		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.012	12	Y	cn		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U,cn	UJ	LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	Perfluoroheptanoic Acid	PFHpA	0.0097	9.7	Y	cn		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV0422-OUTLET 002-A	OUTLET 002	05/11/2022	Perfluorononanoic Acid	PFNA	0.0019	1.9	Y	cn		LIQUID	FS	Other Liquid	39.2719421	-81.670189
SW522-OUTLET 002-051222	OUTLET 002	05/12/2022	PFOA	PFOA	0.39	390	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW522-OUTLET 002-051222	OUTLET 002	05/12/2022	Hfpo Dimer Acid	HFPO-DA	0.28	280	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW522-OUTLET 002-051922	OUTLET 002	05/19/2022	PFOA	PFOA	0.49	490	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW522-OUTLET 002-051922	OUTLET 002	05/19/2022	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW522-OUTLET 002-052622	OUTLET 002	05/26/2022	PFOA	PFOA	0.33	330	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW522-OUTLET 002-052622	OUTLET 002	05/26/2022	Hfpo Dimer Acid	HFPO-DA	0.57	570	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0042	4.2	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	PFOA	PFOA	0.44	440	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	PFOS	PFOS	0.0053	5.3	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluorobutanoic Acid	PFBA	0.0098	9.8	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Hfpo Dimer Acid	HFPO-DA	0.50	500	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluoropentanoic Acid	PFPA	0.0050	5	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluorohexanoic Acid	PFHxA	0.013	13	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.012	12	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluoroheptanoic Acid	PFHpA	0.012	12	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0622-OUTLET 002-A	Outlet 002	06/01/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-060222	OUTLET 002	06/02/2022	PFOA	PFOA	0.72	720	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-060222	OUTLET 002	06/02/2022	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-060922	OUTLET 002	06/09/2022	PFOA	PFOA	0.54	540	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-060922	OUTLET 002	06/09/2022	Hfpo Dimer Acid	HFPO-DA	3.2	3200	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-061022	OUTLET 002	06/10/2022	Hfpo Dimer Acid	HFPO-DA	0.54	540	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-061522	OUTLET 002	06/15/2022	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-061622	OUTLET 002	06/16/2022	PFOA	PFOA	0.37	370	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-061622	OUTLET 002	06/16/2022	Hfpo Dimer Acid	HFPO-DA	0.37	370	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-061622-1	OUTLET 002	06/16/2022	Hfpo Dimer Acid	HFPO-DA	0.35	350	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-061722	OUTLET 002	06/17/2022	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-061822	OUTLET 002	06/18/2022	Hfpo Dimer Acid	HFPO-DA	0.35	350	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-061922	OUTLET 002	06/19/2022	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-062022	OUTLET 002	06/20/2022	Hfpo Dimer Acid	HFPO-DA	0.38	380	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-062122	OUTLET 002	06/21/2022	Hfpo Dimer Acid	HFPO-DA	0.35	350	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-062222	OUTLET 002	06/22/2022	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-062322	OUTLET 002	06/23/2022	PFOA	PFOA	0.38	380	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-062322	OUTLET 002	06/23/2022	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0043	4.3	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	PFOA	PFOA	0.43	430	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	PFOS	PFOS	0.0060	6	Y	I	J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluorobutanoic Acid	PFBA	0.0088	8.8	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Hfpo Dimer Acid	HFPO-DA	0.46	460	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluoropentanoic Acid	PFPA	0.0036	3.6	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluorohexanoic Acid	PFHxA	0.012	12	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.011	11	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluoroheptanoic Acid	PFHpA	0.011	11	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-063022-OUTLET 002-A	Outlet 002	06/30/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
SW622-OUTLET 002-063022	OUTLET 002	06/30/2022	PFOA	PFOA	0.42	420	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW622-OUTLET 002-063022	OUTLET 002	06/30/2022	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0038	3.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	PFOS	PFOS	0.0044	4.4	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluoroundecanoic Acid	PFUnA	0.0040	4	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluorobutanoic Acid	PFBA	0.011	11	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	PFOA	PFOA	0.44	440	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Hfpo Dimer Acid	HFPO-DA	7.8	7800	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluoropentanoic Acid	PFPA	0.015	15	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluorohexanoic Acid	PFHxA	0.016	16	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.012	12	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluorotridecanoic Acid	PFTriA	0.0022	2.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluorodecanoic Acid	PFDA	0.0037	3.7	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluoroheptanoic Acid	PFHpA	0.018	18	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q22-OUTLET 002-A-070722	OUTLET 002	07/07/2022	Perfluorononanoic Acid	PFNA	0.0062	6.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW722-OUTLET 002-071422	OUTLET 002	07/14/2022	PFOA	PFOA	0.41	410	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW722-OUTLET 002-071422	OUTLET 002	07/14/2022	Hfpo Dimer Acid	HFPO-DA	28	28000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW722-OUTLET 002-072122	OUTLET 002	07/21/2022	PFOA	PFOA	0.57	570	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW722-OUTLET 002-072122	OUTLET 002	07/21/2022	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y	cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW722-OUTLET 002-072822	OUTLET 002	07/28/2022	PFOA	PFOA	0.57	570	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW722-OUTLET 002-072822	OUTLET 002	07/28/2022	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW822-OUTLET 002-080422	OUTLET 002	08/04/2022	PFOA	PFOA	0.47	470	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
SW822-OUTLET 002-080422	OUTLET 002	08/04/2022	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
SW822-OUTLET 002-081122	OUTLET 002	08/11/2022	PFOA	PFOA	0.38	380	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW822-OUTLET 002-081122	OUTLET 002	08/11/2022	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0058	5.8	Y			LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	PFOA	PFOA	0.42	420	Y			LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	PFOS	PFOS	0.0055	5.5	Y			LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluorobutanoic Acid	PFBA	0.011	11	Y			LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Hfpo Dimer Acid	HFPO-DA	0.57	570	Y			LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluoropentanoic Acid	PFPA	0.0041	4.1	Y			LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluorohexanoic Acid	PFHxA	0.015	15	Y			LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.013	13	Y			LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluoroheptanoic Acid	PFHpA	0.011	11	Y			LIQUID	FS	other liquid	39.2719421	-81.670189
OHRV-0822-OUTLET 002-A	outlet 002	08/17/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.2719421	-81.670189
SW822-OUTLET 002-081822	OUTLET 002	08/18/2022	PFOA	PFOA	0.43	430	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW822-OUTLET 002-081822	OUTLET 002	08/18/2022	Hfpo Dimer Acid	HFPO-DA	0.63	630	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW822-OUTLET 002-082522	OUTLET 002	08/25/2022	PFOA	PFOA	0.42	420	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW822-OUTLET 002-082522	OUTLET 002	08/25/2022	Hfpo Dimer Acid	HFPO-DA	0.70	700	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0922-OUTLET 002-090122	OUTLET 002	09/01/2022	PFOA	PFOA	0.54	540	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0922-OUTLET 002-090122	OUTLET 002	09/01/2022	Hfpo Dimer Acid	HFPO-DA	0.53	530	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0922-OUTLET 002-090822	OUTLET 002	09/08/2022	PFOA	PFOA	0.48	480	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0922-OUTLET 002-090822	OUTLET 002	09/08/2022	Hfpo Dimer Acid	HFPO-DA	0.38	380	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0922-OUTLET 002-091522	OUTLET 002	09/15/2022	PFOA	PFOA	0.31	310	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0922-OUTLET 002-091522	OUTLET 002	09/15/2022	Hfpo Dimer Acid	HFPO-DA	0.40	400	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0922-OUTLET 002-092222	OUTLET 002	09/22/2022	PFOA	PFOA	0.38	380	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0922-OUTLET 002-092222	OUTLET 002	09/22/2022	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0048	4.8	Y			LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	PFOA	PFOA	0.49	490	Y			LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	PFOS	PFOS	0.0049	4.9	Y			LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	Perfluorobutanoic Acid	PFBA	0.011	11	Y			LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	Hfpo Dimer Acid	HFPO-DA	0.58	580	Y			LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	Perfluoropentanoic Acid	PFPA	0.0072	7.2	Y			LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	Perfluorohexanoic Acid	PFHxA	0.023	23	Y			LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.010	10	Y			LIQUID	FS	Surface Water	39.2719421	-81.670189
OHRV-0922-OUTLET 002-A	OUTLET 002	09/28/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Surface Water	39.

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
OHRV-1122-OUTLET 002-A	Outlet 002	11/02/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
SW1122-OUTLET 002-110322	OUTLET 002	11/03/2022	PFOA	PFOA	2.33	2330	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1122-OUTLET 002-110322	OUTLET 002	11/03/2022	Hfpo Dimer Acid	HFPO-DA	0.598	598	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1122-OUTLET 002-111022	OUTLET 002	11/10/2022	PFOA	PFOA	0.565	565	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1122-OUTLET 002-111022	OUTLET 002	11/10/2022	Hfpo Dimer Acid	HFPO-DA	0.502	502	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1122-OUTLET 002-111722	OUTLET 002	11/17/2022	PFOA	PFOA	0.470	470	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1122-OUTLET 002-111722	OUTLET 002	11/17/2022	Hfpo Dimer Acid	HFPO-DA	1.37	1370	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1122-OUTLET 002-112222	OUTLET 002	11/22/2022	PFOA	PFOA	0.528	528	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1122-OUTLET 002-112222	OUTLET 002	11/22/2022	Hfpo Dimer Acid	HFPO-DA	0.548	548	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0054	5.4	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	R-PSDCA	R-PSDCA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0043	4.3	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	2-Perfluorodecylethanoic Acid	10:2 FTCA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Hydro-PS Acid	Hydro-PS Acid	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFECA-A	PFECA-A	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFOA	PFOA	0.44	440	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFO3OA	PFO3OA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PPF Acid	PPF Acid	0.45	450	Y	*-	J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluoropropanesulfonic Acid	PFPrS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorononanesulfonic Acid	PFNS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	R-PSDA	R-PSDA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFECA B	PFECA B	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFOS	PFOS	0.0045	4.5	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	R-EVE	R-EVE	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorobutanoic Acid	PFBA	0.027	27	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFECA-F	PFECA-F	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFO2HxA	PFO2HxA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFECA-G	PFECA-G	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	MTP	MTP	0.0043	4.3	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0043	4.3	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorodecane Sulfonic Acid	PFDS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFMOAA	PFMOAA	0.0033	3.3	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Hfpo Dimer Acid	HFPO-DA	0.58	580	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0043	4.3	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorohexanesulfonamide	FHXSA	0.0017	1.7	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	EVE Acid	EVE Acid	0.0087	8.7	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	NVHOS, Acid Form	NVHOS, Acid Form	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PEPA	PEPA	0.0074	7.4	Y	*-,cn	J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluoropentanoic Acid	PFPA	0.0062	6.2	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PS Acid	PS Acid	0.0087	8.7	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorobutylsulphonamide	FBSA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorohexanoic Acid	PFHxA	0.011	11	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.014	14	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorooctane Sulfonamide	PFOSA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0017	1.7	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PMPA	PMPA	0.0020	2	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorooctadecanoic Acid	PFODA	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Hydrolyzed PSDA	Hydrolyzed PSDA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluoroheptanoic Acid	PFHpA	0.0098	9.8	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Perfluorononanoic Acid	PFNA	0.0022	2.2	Y		J	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFO4DA	PFO4DA	0.0017	1.7	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	PFO5DA	PFO5DA	0.0043	4.3	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	2-Perfluorohexylethanoic Acid	6:2 FTCA	0.0017	1.7	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.2719421	-81.670189
Outfall 002-120122	OUTLET 002	12/01/2022	Hydro-EVE Acid	Hydro-EVE Acid	0.0017	1.7	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.2719421	-81.670189
SW1222-OUTLET 002-120122	OUTLET 002	12/01/2022	PFOA	PFOA	0.747	747	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1222-OUTLET 002-120122	OUTLET 002	12/01/2022	Hfpo Dimer Acid	HFPO-DA	1.67	1670	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1222-OUTLET 002-120822	OUTLET 002	12/08/2022	PFOA	PFOA	0.834	834	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1222-OUTLET 002-120822	OUTLET 002	12/08/2022	Hfpo Dimer Acid	HFPO-DA	1.78	1780	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0051	5.1	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	PFOA	PFOA	0.47	470	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	PFOS	PFOS	0.0049	4.9	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluorobutanoic Acid	PFBA	0.013	13	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluoropentanoic Acid	PFPA	0.0039	3.9	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluorohexanoic Acid	PFHxA	0.015	15	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.011	11	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluoroheptanoic Acid	PFHpA	0.013	13	Y			LIQUID	FS	Other Liquid	39.2719421	-81.670189
OHRV-1222-OUTLET 002-A	OUTLET 002	12/12/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.2719421	-81.670189
SW1222-OUTLET 002-121522	OUTLET 002	12/15/2022	PFOA	PFOA	0.587	587	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1222-OUTLET 002-121522	OUTLET 002	12/15/2022	Hfpo Dimer Acid	HFPO-DA	5.77	5770	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1222-OUTLET 002-122122	OUTLET 002	12/21/2022	PFOA	PFOA	0.523	523	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1222-OUTLET 002-122122	OUTLET 002	12/21/2022	Hfpo Dimer Acid	HFPO-DA	0.366	366	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1222-OUTLET 002-122922	OUTLET 002	12/29/2022	PFOA	PFOA	0.567	567	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1222-OUTLET 002-122922	OUTLET 002	12/29/2022	Hfpo Dimer Acid	HFPO-DA	0.810	810	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW123-OUTLET 002-010523	OUTLET 002	01/05/2023	PFOA	PFOA	0.704	704	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW123-OUTLET 002-010523	OUTLET 002	01/05/2023	Hfpo Dimer Acid	HFPO-DA	2.19	2190	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	DONA	DONA	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00502	5.02	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	PFOS	PFOS	0.00433	4.33	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluoroundecanoic Acid	PFUnA	0.00322	3.22	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluorobutanoic Acid	PFBA	0.0158	15.8	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	PFOA	PFOA	0.432	432	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Hfpo Dimer Acid	HFPO-DA	1.75	1750	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluoropentanoic Acid	PFPA	0.00980	9.8	Y	I	J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluorohexanoic Acid	PFHxA	0.0190	19	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00677	6.77	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluorotridecanoic Acid	PFTriA	0.00209	2.09	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluorodecanoic Acid	PFDA	0.00228	2.28	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluoroheptanoic Acid	PFHpA	0.0154	15.4	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1Q23-OUTLET 002-A-011223	OUTLET 002	01/12/2023	Perfluorononanoic Acid	PFNA	0.00531	5.31	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW123-OUTLET 002-011923	OUTLET 002	01/19/2023	PFOA	PFOA	0.526	526	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW123-OUTLET 002-011923	OUTLET 002	01/19/2023	Hfpo Dimer Acid	HFPO-DA	3.94	3940	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0123-OUTLET 002-012623	OUTLET 002	01/26/2023	PFOA	PFOA	0.499	499	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0123-OUTLET 002-012623	OUTLET 002	01/26/2023	Hfpo Dimer Acid	HFPO-DA	3.81	3810	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW223-OUTLET 002-020223	OUTLET 002	02/02/2023	PFOA	PFOA	0.593	593	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW223-OUTLET 002-020223	OUTLET 002	02/02/2023	Hfpo Dimer Acid	HFPO-DA	0.676	676	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00711	7.11	N	U		LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00711	7.11	N	U		LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	PFOA	PFOA	0.540	540	Y			LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00560	5.6	Y			LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	DONA	DONA	0.00711	7.11	N	U		LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	PFOS	PFOS	0.00499	4.99	Y			LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	Perfluoroundecanoic Acid	PFUnA	0.00178	1.78	N	U		LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	Perfluorobutanoic Acid	PFBA	0.0157	15.7	Y			LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00178	1.78	N	U		LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023	Hfpo Dimer Acid	HFPO-DA	0.998	998	Y			LIQUID	FS	OTHER LIQUID	39.2719421	-81.670189
OHRV-0223-OUTLET 002-A	OUTLET 002	02/06/2023

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0323-OUTLET 002-030223	OUTLET 002	03/02/2023	Perfluoroheptanoic Acid	PFHpA	0.0143	14.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030223	OUTLET 002	03/02/2023	Perfluorononanoic Acid	PFNA	0.00335	3.35	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00697	6.97	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00697	6.97	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorononanesulfonic Acid	PFNS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	PFOA	PFOA	0.688	688	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00526	5.26	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	PFECA B	PFECA B	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	DONA	DONA	0.00697	6.97	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0435	43.5	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	PFECA-A	PFECA-A	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	PFOS	PFOS	0.00510	5.1	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluoroundecanoic Acid	PFUnA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorobutanoic Acid	PFBA	0.0130	13	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	PFECA-F	PFECA-F	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Hfpo Dimer Acid	HFPO-DA	0.787	787	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0174	17.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00697	6.97	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorododecanoic Acid	PFDoA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00697	6.97	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00244	2.44	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00697	6.97	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluoropentanoic Acid	PFPA	0.00555	5.55	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorohexanoic Acid	PFHxA	0.0177	17.7	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0216	21.6	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00871	8.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorotetradecanoic Acid	PFTeA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorotridecanoic Acid	PFTriA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorooctane Sulfonamide	PFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0435	43.5	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0174	17.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorodecanoic Acid	PFDA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluoroheptanoic Acid	PFHpA	0.0149	14.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-030923	OUTLET 002	03/09/2023	Perfluorononanoic Acid	PFNA	0.00301	3.01	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	PFECA-A	PFECA-A	0.00360	3.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0449	44.9	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	DONA	DONA	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	PFECA B	PFECA B	0.00360	3.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00872	8.72	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00360	3.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	PFOA	PFOA	0.663	663	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorononanesulfonic Acid	PFNS	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	PFOS	PFOS	0.00467	4.67	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluoroundecanoic Acid	PFUnA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorobutanoic Acid	PFBA	0.0122	12.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	PFECA-F	PFECA-F	0.00360	3.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00254	2.54	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00719	7.19	N	U,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Hfpo Dimer Acid	HFPO-DA	1.03	1030	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0180	18	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorododecanoic Acid	PFDoA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00719	7.19	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluoropentanoic Acid	PFPA	0.00487	4.87	Y	I	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorohexanoic Acid	PFHxA	0.0167	16.7	Y	cn	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0175	17.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00899	8.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorotridecanoic Acid	PFTriA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorooctane Sulfonamide	PFOSA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0449	44.9	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00360	3.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0180	18	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorodecanoic Acid	PFDA	0.00180	1.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluoroheptanoic Acid	PFHpA	0.0148	14.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-031623	OUTLET 002	03/16/2023	Perfluorononanoic Acid	PFNA	0.00254	2.54	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00695	6.95	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00695	6.95	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorononanesulfonic Acid	PFNS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00347	3.47	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	PFOA	PFOA	0.657	657	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00559	5.59	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	PFECA B	PFECA B	0.00347	3.47	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	DONA	DONA	0.00695	6.95	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0434	43.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	PFECA-A	PFECA-A	0.00347	3.47	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	PFOS	PFOS	0.00542	5.42	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluoroundecanoic Acid	PFUnA	0.00208	2.08	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorobutanoic Acid	PFBA	0.0136	13.6	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	PFECA-F	PFECA-F	0.00347	3.47	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Hfpo Dimer Acid	HFPO-DA	1.21	1210	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0174	17.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00695	6.95	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorododecanoic Acid	PFDoA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00695	6.95	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00176	1.76	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00695	6.95	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluoropentanoic Acid	PFPA	0.00767	7.67	Y		J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorohexanoic Acid	PFHxA	0.0185	18.5	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0155	15.5	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00868	8.68	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorotridecanoic Acid	PFTriA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorooctane Sulfonamide	PFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0434	43.4	N	U,*+		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00347	3.47	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0174	17.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorodecanoic Acid	PFDA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0179	17.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-032323	OUTLET 002	03/23/2023	Perfluorononanoic Acid	PFNA	0.00379	3.79	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00697	6.97	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00697	6.97	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	PFECA-A	PFECA-A	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0436	43.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	DONA	DONA	0.00697	6.97	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	PFECA B	PFECA B	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00509	5.09	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	PFOA	PFOA	0.744	744	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	Perfluorononanesulfonic Acid	PFNS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	PFOS	PFOS	0.00447	4.47	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	Perfluoroundecanoic Acid	PFUnA	0.00190	1.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	Perfluorobutanoic Acid	PFBA	0.0133	13.3	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	PFECA-F	PFECA-F	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00259	2.59	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00697	6.97	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0323-OUTLET 002-033023	OUTLET 002	03/30/2023	Hfpo Dimer Acid	HFPO-DA	1

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0430	43	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	PFECA-A	PFECA-A	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	DONA	DONA	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	PFECA B	PFECA B	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00472	4.72	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	PFOS	PFOS	0.00448	4.48	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorobutanoic Acid	PFBA	0.0118	11.8	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	PFECA-F	PFECA-F	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	PFOA	PFOA	0.524	524	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00191	1.91	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Hfpo Dimer Acid	HFPO-DA	1.25	1250	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0172	17.2	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00688	6.88	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorododecanoic Acid	PFDoA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluoropentanoic Acid	PFPA	0.0117	11.7	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorohexanoic Acid	PFHxA	0.0126	12.6	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0173	17.3	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00860	8.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0430	43	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0172	17.2	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorodecanoic Acid	PFDA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluoroheptanoic Acid	PFHpA	0.0117	11.7	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW2Q23-OUTLET 002-A-041323	OUTLET 002	04/13/2023	Perfluorononanoic Acid	PFNA	0.00230	2.3	Y	I	J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00327	3.27	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	PFECA B	PFECA B	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	DONA	DONA	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0432	43.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	PFECA-A	PFECA-A	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorononanesulfonic Acid	PFNS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	PFOS	PFOS	0.00378	3.78	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluoroundecanoic Acid	PFUnA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorobutanoic Acid	PFBA	0.0101	10.1	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	PFECA-F	PFECA-F	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	PFOA	PFOA	0.451	451	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Hfpo Dimer Acid	HFPO-DA	0.707	707	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0173	17.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorododecanoic Acid	PFDoA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00180	1.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluoropentanoic Acid	PFPA	0.00535	5.35	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorohexanoic Acid	PFHxA	0.0137	13.7	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0138	13.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00864	8.64	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorotridecanoic Acid	PFTriA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorooctane Sulfonamide	PFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0432	43.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0173	17.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorodecanoic Acid	PFDA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluoroheptanoic Acid	PFHpA	0.0118	11.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	Perfluorononanoic Acid	PFNA	0.00190	1.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042023	OUTLET 002	04/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorononanesulfonic Acid	PFNS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	PFECA-A	PFECA-A	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0439	43.9	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	DONA	DONA	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	PFECA B	PFECA B	0.00351	3.51	N	U,*+		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00441	4.41	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	PFOA	PFOA	0.892	892	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	PFOS	PFOS	0.00420	4.2	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluoroundecanoic Acid	PFUnA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorobutanoic Acid	PFBA	0.0129	12.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	PFECA-F	PFECA-F	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00194	1.94	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Hfpo Dimer Acid	HFPO-DA	0.497	497	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluoropentanoic Acid	PFPA	0.00646	6.46	Y	I	J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorohexanoic Acid	PFHxA	0.0157	15.7	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0190	19	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00878	8.78	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorotridecanoic Acid	PFTriA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0439	43.9	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorodecanoic Acid	PFDA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluoroheptanoic Acid	PFHpA	0.0126	12.6	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	Perfluorononanoic Acid	PFNA	0.00267	2.67	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0423-OUTLET 002-042823	OUTLET 002	04/27/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluorononanesulfonic Acid	PFNS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0425	42.5	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	PFECA-A	PFECA-A	0.00340	3.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	DONA	DONA	0.00680	6.8	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00387	3.87	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	PFECA B	PFECA B	0.00340	3.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00340	3.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	PFOA	PFOA	0.363	363	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	PFOS	PFOS	0.00403	4.03	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluoroundecanoic Acid	PFUnA	0.00334	3.34	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluorobutanoic Acid	PFBA	0.0131	13.1	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	PFECA-F	PFECA-F	0.00340	3.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Hfpo Dimer Acid	HFPO-DA	2.99	2990	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00680	6.8	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluorododecanoic Acid	PFDoA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00680	6.8	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00176	1.76	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-A-050423	OUTLET 002	05/04/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00170	1

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00398	3.98	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	PFECA B	PFECA B	0.00339	3.39	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00339	3.39	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	PFOA	PFOA	0.397	397	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	PFOS	PFOS	0.00361	3.61	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluoroundecanoic Acid	PFUnA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorobutanoic Acid	PFBA	0.0112	11.2	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	PFECA-F	PFECA-F	0.00339	3.39	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Hfpo Dimer Acid	HFPO-DA	0.417	417	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00678	6.78	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorododecanoic Acid	PFDoA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00678	6.78	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00678	6.78	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluoropentanoic Acid	PFPA	0.00428	4.28	Y		J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorohexanoic Acid	PFHxA	0.0113	11.3	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0155	15.5	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00848	8.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorotridecanoic Acid	PFTriA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorooctane Sulfonamide	PFOSA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0424	42.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00339	3.39	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0170	17	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorodecanoic Acid	PFDA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluoroheptanoic Acid	PFHpA	0.00920	9.2	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	Perfluorononanoic Acid	PFNA	0.00170	1.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00678	6.78	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-051823	OUTLET 002	05/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00678	6.78	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	PFECA B	PFECA B	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00413	4.13	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	DONA	DONA	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	PFECA-A	PFECA-A	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0440	44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorononanesulfonic Acid	PFNS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	PFOS	PFOS	0.00412	4.12	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluoroundecanoic Acid	PFUnA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorobutanoic Acid	PFBA	0.0122	12.2	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	PFECA-F	PFECA-F	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	PFOA	PFOA	0.578	578	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00179	1.79	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Hfpo Dimer Acid	HFPO-DA	0.523	523	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluoropentanoic Acid	PFPA	0.00497	4.97	Y	I	J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorohexanoic Acid	PFHxA	0.00882	8.82	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0143	14.3	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00880	8.8	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorotridecanoic Acid	PFTriA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0440	44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorodecanoic Acid	PFDA	0.00319	3.19	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0103	10.3	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	Perfluorononanoic Acid	PFNA	0.00518	5.18	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0523-OUTLET 002-052523	OUTLET 002	05/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	PFECA-A	PFECA-A	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0431	43.1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	DONA	DONA	0.00689	6.89	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	PFECA B	PFECA B	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00419	4.19	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorononanesulfonic Acid	PFNS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	PFOS	PFOS	0.00418	4.18	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluoroundecanoic Acid	PFUnA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorobutanoic Acid	PFBA	0.0124	12.4	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	PFECA-F	PFECA-F	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	PFOA	PFOA	0.525	525	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00689	6.89	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Hfpo Dimer Acid	HFPO-DA	1.04	1040	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0172	17.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00689	6.89	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorododecanoic Acid	PFDoA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00689	6.89	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluoropentanoic Acid	PFPA	0.00681	6.81	Y	I	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorohexanoic Acid	PFHxA	0.0114	11.4	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0138	13.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00861	8.61	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorotetradecanoic Acid	PFTeA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorotridecanoic Acid	PFTriA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorooctane Sulfonamide	PFOSA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0431	43.1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0172	17.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorodecanoic Acid	PFDA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluoroheptanoic Acid	PFHpA	0.00919	9.19	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	Perfluorononanoic Acid	PFNA	0.00194	1.94	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00689	6.89	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-A-060123	OUTLET 002	06/01/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00689	6.89	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	PFECA-A	PFECA-A	0.00335	3.35	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0419	41.9	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	DONA	DONA	0.00670	6.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	PFECA B	PFECA B	0.00335	3.35	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00394	3.94	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluorononanesulfonic Acid	PFNS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	PFOS	PFOS	0.00395	3.95	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluoroundecanoic Acid	PFUnA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluorobutanoic Acid	PFBA	0.0118	11.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	PFECA-F	PFECA-F	0.00335	3.35	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00335	3.35	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	PFOA	PFOA	0.377	377	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00670	6.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Hfpo Dimer Acid	HFPO-DA	0.545	545	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0168	16.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00670	6.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluorododecanoic Acid	PFDoA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00670	6.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluoropentanoic Acid	PFPA	0.00751	7.51	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluorohexanoic Acid	PFHxA	0.0131	13.1	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0129	12.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-060823	OUTLET 002	06/08/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00838	8.38	N	U		Liquid	F

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluoroundecanoic Acid	PFUnA	0.00188	1.88	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorobutanoic Acid	PFBA	0.0132	13.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	PFECA-F	PFECA-F	0.00368	3.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00368	3.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	PFOA	PFOA	0.449	449	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00736	7.36	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Hfpo Dimer Acid	HFPO-DA	0.948	948	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0184	18.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00736	7.36	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorododecanoic Acid	PFDoA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00736	7.36	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluoropentanoic Acid	PFPA	0.00736	7.36	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorohexanoic Acid	PFHxA	0.0133	13.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0161	16.1	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00919	9.19	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorotridecanoic Acid	PFTriA	0.00184	1.84	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorooctane Sulfonamide	PFOSA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0460	46	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00368	3.68	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0184	18.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorodecanoic Acid	PFDA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluoroheptanoic Acid	PFHpA	0.0125	12.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	Perfluorononanoic Acid	PFNA	0.00268	2.68	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00736	7.36	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062223	OUTLET 002	06/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00736	7.36	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorononanesulfonic Acid	PFNS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00434	4.34	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	PFECA B	PFECA B	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	DONA	DONA	0.00681	6.81	N	U,*+,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0425	42.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	PFECA-A	PFECA-A	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	PFOA	PFOA	0.461	461	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	PFOS	PFOS	0.00406	4.06	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluoroundecanoic Acid	PFUnA	0.00184	1.84	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorobutanoic Acid	PFBA	0.0149	14.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	PFECA-F	PFECA-F	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Hfpo Dimer Acid	HFPO-DA	0.950	950	Y	^2		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00681	6.81	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorododecanoic Acid	PFDoA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00681	6.81	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00175	1.75	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00681	6.81	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluoropentanoic Acid	PFPA	0.00656	6.56	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorohexanoic Acid	PFHxA	0.0143	14.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0165	16.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00851	8.51	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorotetradecanoic Acid	PFTeA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorotridecanoic Acid	PFTriA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorooctane Sulfonamide	PFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0425	42.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorodecanoic Acid	PFDA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluoroheptanoic Acid	PFHpA	0.0117	11.7	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	Perfluorononanoic Acid	PFNA	0.00278	2.78	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00681	6.81	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0623-OUTLET 002-062923	OUTLET 002	06/29/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00681	6.81	N	U,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorononanesulfonic Acid	PFNS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	PFECA-A	PFECA-A	0.00343	3.43	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0428	42.8	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	DONA	DONA	0.00685	6.85	N	U,*+,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	PFECA B	PFECA B	0.00343	3.43	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00469	4.69	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00343	3.43	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	PFOA	PFOA	0.563	563	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	PFOS	PFOS	0.00454	4.54	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluoroundecanoic Acid	PFUnA	0.00245	2.45	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorobutanoic Acid	PFBA	0.0171	17.1	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	PFECA-F	PFECA-F	0.00343	3.43	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Hfpo Dimer Acid	HFPO-DA	1.04	1040	Y	^2		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0171	17.1	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorododecanoic Acid	PFDoA	0.00174	1.74	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00189	1.89	Y		J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluoropentanoic Acid	PFPA	0.00822	8.22	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorohexanoic Acid	PFHxA	0.0229	22.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0170	17	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00856	8.56	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorotetradecanoic Acid	PFTeA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorotridecanoic Acid	PFTriA	0.00293	2.93	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorooctane Sulfonamide	PFOSA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0428	42.8	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00343	3.43	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0171	17.1	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorodecanoic Acid	PFDA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluoroheptanoic Acid	PFHpA	0.0190	19	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	Perfluorononanoic Acid	PFNA	0.00329	3.29	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-070623	OUTLET 002	07/06/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0432	43.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	PFECA-A	PFECA-A	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	DONA	DONA	0.00691	6.91	N	U,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00377	3.77	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	PFECA B	PFECA B	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	PFOS	PFOS	0.00407	4.07	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorobutanoic Acid	PFBA	0.0105	10.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	PFECA-F	PFECA-F	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	PFOA	PFOA	0.329	329	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Hfpo Dimer Acid	HFPO-DA	0.423	423	Y	^2		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0173	17.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorododecanoic Acid	PFDoA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluoropentanoic Acid	PFPA	0.00487	4.87	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorohexanoic Acid	PFHxA	0.0105	10.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0151	15.1	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00864	8.64	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW3Q23-OUTLET 002-A-071323	OUTLET 002	07/13/2023	7:

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	PFECA-F	PFECA-F	0.00333	3.33	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Hfpo Dimer Acid	HFPO-DA	0.548	548	Y	^2		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0166	16.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00665	6.65	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorododecanoic Acid	PFDoA	0.00166	1.66	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00665	6.65	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00166	1.66	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00166	1.66	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00166	1.66	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00166	1.66	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00665	6.65	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluoropentanoic Acid	PFPA	0.00603	6.03	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorohexanoic Acid	PFHxA	0.0102	10.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0135	13.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00832	8.32	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorotetradecanoic Acid	PFTeA	0.00166	1.66	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorotridecanoic Acid	PFTriA	0.00166	1.66	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorooctane Sulfonamide	PFOSA	0.00166	1.66	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0416	41.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00333	3.33	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0166	16.6	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorodecanoic Acid	PFDA	0.00166	1.66	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluoroheptanoic Acid	PFHpA	0.00857	8.57	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	Perfluorononanoic Acid	PFNA	0.00239	2.39	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00665	6.65	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0723-OUTLET 002-072723	OUTLET 002	07/27/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00665	6.65	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00446	4.46	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	PFECA B	PFECA B	0.00369	3.69	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	DONA	DONA	0.00737	7.37	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0461	46.1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	PFECA-A	PFECA-A	0.00369	3.69	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorononanesulfonic Acid	PFNS	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	PFOS	PFOS	0.00405	4.05	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluoroundecanoic Acid	PFUnA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorobutanoic Acid	PFBA	0.0105	10.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	PFECA-F	PFECA-F	0.00369	3.69	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00369	3.69	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	PFOA	PFOA	0.405	405	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00737	7.37	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Hfpo Dimer Acid	HFPO-DA	0.598	598	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0184	18.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00737	7.37	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorododecanoic Acid	PFDoA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00737	7.37	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluoropentanoic Acid	PFPA	0.00416	4.16	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorohexanoic Acid	PFHxA	0.0141	14.1	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0150	15	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00922	9.22	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorotetradecanoic Acid	PFTeA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorotridecanoic Acid	PFTriA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorooctane Sulfonamide	PFOSA	0.00184	1.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0437	43.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00349	3.49	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0175	17.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorodecanoic Acid	PFDA	0.00853	8.53	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluoroheptanoic Acid	PFHpA	0.0224	22.4	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	Perfluorononanoic Acid	PFNA	0.0211	21.1	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00699	6.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-A	OUTLET 002	08/03/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00699	6.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00356	3.56	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	PFECA B	PFECA B	0.00349	3.49	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	DONA	DONA	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0437	43.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	PFECA-A	PFECA-A	0.00349	3.49	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorononanesulfonic Acid	PFNS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	PFOS	PFOS	0.00472	4.72	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluoroundecanoic Acid	PFUnA	0.0160	16	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorobutanoic Acid	PFBA	0.0144	14.4	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	PFECA-F	PFECA-F	0.00349	3.49	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00349	3.49	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	PFOA	PFOA	0.614	614	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Hfpo Dimer Acid	HFPO-DA	9.08	9080	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0175	17.5	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorododecanoic Acid	PFDoA	0.00807	8.07	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluoropentanoic Acid	PFPA	0.0757	75.7	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorohexanoic Acid	PFHxA	0.0214	21.4	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0130	13	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00873	8.73	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorotetradecanoic Acid	PFTeA	0.00488	4.88	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorotridecanoic Acid	PFTriA	0.0102	10.2	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorooctane Sulfonamide	PFOSA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0437	43.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00349	3.49	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0175	17.5	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorodecanoic Acid	PFDA	0.00853	8.53	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluoroheptanoic Acid	PFHpA	0.0224	22.4	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	Perfluorononanoic Acid	PFNA	0.0211	21.1	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081023	OUTLET 002	08/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00699	6.99	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorononanesulfonic Acid	PFNS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	PFECA-A	PFECA-A	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0430	43	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	DONA	DONA	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	PFECA B	PFECA B	0.00344	3.44	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00366	3.66	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	PFOA	PFOA	0.535	535	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	PFOS	PFOS	0.00374	3.74	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluoroundecanoic Acid	PFUnA	0.00209	2.09	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorobutanoic Acid	PFBA	0.0109	10.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	PFECA-F	PFECA-F	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Hfpo Dimer Acid	HFPO-DA	0.904	904	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0172	17.2	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorododecanoic Acid	PFDoA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluoropentanoic Acid	PFPA	0.00433	4.33	Y	I	J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorohexanoic Acid	PFHxA	0.0122	12.2	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0110	11	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00860	8.6	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorotridecanoic Acid	PFTriA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0430	43	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0172	17.2	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorodecanoic Acid	PFDA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluoroheptanoic Acid	PFHpA	0.00890	8.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-081723	OUTLET 002	08/17/2023	Perfluorononanoic Acid	PFNA	0.00251	2.51	Y			L

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorododecanoic Acid	PFDoA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00763	7.63	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00763	7.63	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluoropentanoic Acid	PFPA	0.00381	3.81	Y	I	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorohexanoic Acid	PFHxA	0.0132	13.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0129	12.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00954	9.54	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorotetradecanoic Acid	PFTeA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorotridecanoic Acid	PFTriA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorooctane Sulfonamide	PFOSA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0477	47.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00381	3.81	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0191	19.1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorodecanoic Acid	PFDA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluoroheptanoic Acid	PFHpA	0.00992	9.92	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	Perfluorononanoic Acid	PFNA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00763	7.63	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0823-OUTLET 002-083123	OUTLET 002	08/31/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00763	7.63	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorononanesulfonic Acid	PFNS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	PFECA-A	PFECA-A	0.00339	3.39	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0423	42.3	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	DONA	DONA	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	PFECA B	PFECA B	0.00339	3.39	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00390	3.9	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	PFOS	PFOS	0.00405	4.05	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluoroundecanoic Acid	PFUnA	0.00232	2.32	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorobutanoic Acid	PFBA	0.0259	25.9	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	PFECA-F	PFECA-F	0.00339	3.39	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00339	3.39	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	PFOA	PFOA	0.506	506	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Hfpo Dimer Acid	HFPO-DA	3.07	3070	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0169	16.9	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorododecanoic Acid	PFDoA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluoropentanoic Acid	PFPA	0.00339	3.39	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorohexanoic Acid	PFHxA	0.0119	11.9	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0117	11.7	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00847	8.47	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorotetradecanoic Acid	PFTeA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorotridecanoic Acid	PFTriA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorooctane Sulfonamide	PFOSA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0423	42.3	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00339	3.39	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0169	16.9	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorodecanoic Acid	PFDA	0.00228	2.28	Y	cn	J	LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluoroheptanoic Acid	PFHpA	0.0127	12.7	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	Perfluorononanoic Acid	PFNA	0.00448	4.48	Y	cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-A-090723	OUTLET 002	09/07/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	PFECA B	PFECA B	0.0340	34	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	DONA	DONA	0.00679	6.79	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.425	425	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	PFECA-A	PFECA-A	0.0340	34	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorononanesulfonic Acid	PFNS	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0340	34	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	PFOA	PFOA	0.282	282	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	PFOS	PFOS	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluoroundecanoic Acid	PFUnA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorobutanoic Acid	PFBA	0.0152	15.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	PFECA-F	PFECA-F	0.0340	34	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0679	67.9	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Hfpo Dimer Acid	HFPO-DA	0.283	283	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0679	67.9	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorododecanoic Acid	PFDoA	0.0170	17	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0679	67.9	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluoropentanoic Acid	PFPA	0.0340	34	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorohexanoic Acid	PFHxA	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0849	84.9	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorotetradecanoic Acid	PFTeA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorotridecanoic Acid	PFTriA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorooctane Sulfonamide	PFOSA	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.425	425	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0340	34	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorodecanoic Acid	PFDA	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluoroheptanoic Acid	PFHpA	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	Perfluorononanoic Acid	PFNA	0.0170	17	N	U	UJ	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00679	6.79	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-091423	OUTLET 002	09/14/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00679	6.79	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorononanesulfonic Acid	PFNS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	PFECA-A	PFECA-A	0.00344	3.44	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0430	43	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	DONA	DONA	0.00687	6.87	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	PFECA B	PFECA B	0.00344	3.44	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00379	3.79	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	PFOS	PFOS	0.00373	3.73	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluoroundecanoic Acid	PFUnA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorobutanoic Acid	PFBA	0.0245	24.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	PFECA-F	PFECA-F	0.00344	3.44	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00344	3.44	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	PFOA	PFOA	0.296	296	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Hfpo Dimer Acid	HFPO-DA	0.377	377	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0172	17.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00687	6.87	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorododecanoic Acid	PFDoA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00687	6.87	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00687	6.87	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluoropentanoic Acid	PFPA	0.00359	3.59	Y	I	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorohexanoic Acid	PFHxA	0.00762	7.62	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0101	10.1	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00859	8.59	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorotridecanoic Acid	PFTriA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorooctane Sulfonamide	PFOSA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0430	43	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00344	3.44	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0172	17.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorodecanoic Acid	PFDA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluoroheptanoic Acid	PFHpA	0.00760	7.6	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	Perfluorononanoic Acid	PFNA	0.00236	2.36	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00687	6.87	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW0923-OUTLET 002-092123	OUTLET 002	09/21/2023

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluorododecanoic Acid	PFDoA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluoropentanoic Acid	PFPA	0.00601	6.01	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluorohexanoic Acid	PFHxA	0.0109	10.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0139	13.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00870	8.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluorotetradecanoic Acid	PFTeA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluorotridecanoic Acid	PFTriA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluorooctane Sulfonamide	PFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0435	43.5	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0174	17.4	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluorodecanoic Acid	PFDA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluoroheptanoic Acid	PFHpA	0.00907	9.07	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	Perfluorononanoic Acid	PFNA	0.00206	2.06	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW4Q23-OUTLET 002-A-100523	OUTLET 002	10/05/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorononanesulfonic Acid	PFNS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	PFECA-A	PFECA-A	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0433	43.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	DONA	DONA	0.00693	6.93	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	PFECA B	PFECA B	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00424	4.24	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	PFOA	PFOA	0.280	280	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	PFOS	PFOS	0.00387	3.87	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluoroundecanoic Acid	PFUnA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorobutanoic Acid	PFBA	0.0276	27.6	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	PFECA-F	PFECA-F	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Hfpo Dimer Acid	HFPO-DA	0.354	354	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0173	17.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00693	6.93	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorododecanoic Acid	PFDoA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00693	6.93	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00693	6.93	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluoropentanoic Acid	PFPA	0.00452	4.52	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorohexanoic Acid	PFHxA	0.0113	11.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0149	14.9	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00867	8.67	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorotridecanoic Acid	PFTriA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorooctane Sulfonamide	PFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0433	43.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0173	17.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorodecanoic Acid	PFDA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluoroheptanoic Acid	PFHpA	0.00862	8.62	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	Perfluorononanoic Acid	PFNA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00693	6.93	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101223	OUTLET 002	10/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00693	6.93	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00535	5.35	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	PFECA B	PFECA B	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	DONA	DONA	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0443	44.3	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	PFECA-A	PFECA-A	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorononanesulfonic Acid	PFNS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	PFOS	PFOS	0.00464	4.64	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluoroundecanoic Acid	PFUnA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorobutanoic Acid	PFBA	0.0499	49.9	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	PFECA-F	PFECA-F	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	PFOA	PFOA	0.413	413	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00183	1.83	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Hfpo Dimer Acid	HFPO-DA	0.381	381	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0177	17.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorododecanoic Acid	PFDoA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluoropentanoic Acid	PFPA	0.00783	7.83	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorohexanoic Acid	PFHxA	0.0562	56.2	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0154	15.4	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00886	8.86	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorotetradecanoic Acid	PFTeA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorotridecanoic Acid	PFTriA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorooctane Sulfonamide	PFOSA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0443	44.3	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0177	17.7	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorodecanoic Acid	PFDA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluoroheptanoic Acid	PFHpA	0.0103	10.3	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	Perfluorononanoic Acid	PFNA	0.00187	1.87	Y			LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-101923	OUTLET 002	10/19/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorononanesulfonic Acid	PFNS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	PFECA-A	PFECA-A	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0434	43.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	DONA	DONA	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	PFECA B	PFECA B	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00621	6.21	Y	B,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	PFOA	PFOA	0.395	395	Y	B,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	PFOS	PFOS	0.00429	4.29	Y	B,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluoroundecanoic Acid	PFUnA	0.0153	15.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorobutanoic Acid	PFBA	0.0176	17.6	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	PFECA-F	PFECA-F	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Hfpo Dimer Acid	HFPO-DA	0.551	551	Y	B,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0174	17.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorododecanoic Acid	PFDoA	0.00195	1.95	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluoropentanoic Acid	PFPA	0.00430	4.3	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorohexanoic Acid	PFHxA	0.0131	13.1	Y	B,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0132	13.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00869	8.69	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorotetradecanoic Acid	PFTeA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorotridecanoic Acid	PFTriA	0.0243	24.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorooctane Sulfonamide	PFOSA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0434	43.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00347	3.47	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0174	17.4	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorodecanoic Acid	PFDA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluoroheptanoic Acid	PFHpA	0.00931	9.31	Y	B,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	Perfluorononanoic Acid	PFNA	0.00174	1.74	Y	B,cn	B	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1023-OUTLET 002-102623	OUTLET 002	10/26/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-A-110223	OUTLET 002	11/02/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-A-110223	OUTLET 002	11/02/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00546	5.46	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-A-110223	OUTLET 002	11/02/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-A-110223	OUTLET 002	11/02/2023	PFECA B	PFECA B	0.00350	3.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-A-110223	OUTLET 002	11/02/2023	DONA	DONA	0.00700	7	N	U

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	Perfluorohexanoic Acid	PFHxA	0.0265	26.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0177	17.7	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00857	8.57	N	U,*+,cn		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	Perfluorotetradecanoic Acid	PFTeA	0.00379	3.79	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	Perfluorotridecanoic Acid	PFTriA	0.00644	6.44	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	Perfluorooctane Sulfonamide	PFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0428	42.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00343	3.43	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0171	17.1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	Perfluorodecanoic Acid	PFDA	0.00396	3.96	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	Perfluoroheptanoic Acid	PFHpA	0.0234	23.4	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	Perfluorononanoic Acid	PFNA	0.00659	6.59	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-110923	OUTLET 002	11/09/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorononanesulfonic Acid	PFNS	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	PFECA-A	PFECA-A	0.00370	3.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0463	46.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	DONA	DONA	0.00741	7.41	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	PFECA B	PFECA B	0.00370	3.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00614	6.14	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	PFOS	PFOS	0.00526	5.26	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluoroundecanoic Acid	PFUnA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorobutanoic Acid	PFBA	0.0123	12.3	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	PFECA-F	PFECA-F	0.00370	3.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00370	3.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	PFOA	PFOA	0.640	640	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Hfpo Dimer Acid	HFPO-DA	0.483	483	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0185	18.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00741	7.41	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorododecanoic Acid	PFDoA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00741	7.41	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00741	7.41	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluoropentanoic Acid	PFPA	0.0109	10.9	Y		J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorohexanoic Acid	PFHxA	0.0192	19.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0132	13.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00926	9.26	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorotridecanoic Acid	PFTriA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorooctane Sulfonamide	PFOSA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0463	46.3	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00370	3.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0185	18.5	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorodecanoic Acid	PFDA	0.00242	2.42	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluoroheptanoic Acid	PFHpA	0.0158	15.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	Perfluorononanoic Acid	PFNA	0.00597	5.97	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00741	7.41	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-111623	OUTLET 002	11/16/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00741	7.41	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00199	1.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00644	6.44	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00199	1.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	PFECA B	PFECA B	0.00399	3.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	DONA	DONA	0.00797	7.97	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0498	49.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	PFECA-A	PFECA-A	0.00399	3.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00199	1.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorononanesulfonic Acid	PFNS	0.00199	1.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00399	3.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	PFOA	PFOA	1.00	1000	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	PFOS	PFOS	0.00759	7.59	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluoroundecanoic Acid	PFUnA	0.00806	8.06	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorobutanoic Acid	PFBA	0.0157	15.7	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	PFECA-F	PFECA-F	0.00399	3.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00199	1.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00199	1.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00199	1.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00797	7.97	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Hfpo Dimer Acid	HFPO-DA	3.36	3360	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0199	19.9	N	U,*-,cn	R	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00797	7.97	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorododecanoic Acid	PFDoA	0.00398	3.98	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00797	7.97	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00199	1.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluoropentanoic Acid	PFPA	0.0198	19.8	Y	I,*+,cn	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorohexanoic Acid	PFHxA	0.0238	23.8	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0165	16.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00996	9.96	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.00464	4.64	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorotridecanoic Acid	PFTriA	0.00946	9.46	Y	*+,cn	J	Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorooctane Sulfonamide	PFOSA	0.00199	1.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0498	49.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00399	3.99	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0199	19.9	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorodecanoic Acid	PFDA	0.00635	6.35	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0195	19.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	Perfluorononanoic Acid	PFNA	0.0105	10.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00797	7.97	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-112123	OUTLET 002	11/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00797	7.97	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorononanesulfonic Acid	PFNS	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	PFECA-A	PFECA-A	0.00376	3.76	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0471	47.1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	DONA	DONA	0.00753	7.53	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	PFECA B	PFECA B	0.00376	3.76	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00473	4.73	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	PFOS	PFOS	0.00434	4.34	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluoroundecanoic Acid	PFUnA	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorobutanoic Acid	PFBA	0.0122	12.2	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	PFECA-F	PFECA-F	0.00376	3.76	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00376	3.76	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	PFOA	PFOA	0.579	579	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Hfpo Dimer Acid	HFPO-DA	0.335	335	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0188	18.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00753	7.53	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorododecanoic Acid	PFDoA	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00753	7.53	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00753	7.53	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluoropentanoic Acid	PFPA	0.0106	10.6	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorohexanoic Acid	PFHxA	0.0205	20.5	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0121	12.1	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00941	9.41	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorotetradecanoic Acid	PFTeA	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorotridecanoic Acid	PFTriA	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorooctane Sulfonamide	PFOSA	0.00188	1.88	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0471	47.1	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00376	3.76	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0188	18.8	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorodecanoic Acid	PFDA	0.00228	2.28	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluoroheptanoic Acid	PFHpA	0.0147	14.7	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	Perfluorononanoic Acid	PFNA	0.00508	5.08	Y			Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00753	7.53	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1123-OUTLET 002-113023	OUTLET 002	11/30/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00753	7.53	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00787	7.87	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00787	7.87	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0197	19.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0197	19.7	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00984	9.84	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0492	49.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00787	7.87	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0492	49.2	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	DONA	DONA	0.00787	7.87	N	U		Liquid	FS	Other liquid	39.2719421	-81.670189
SW1223-OUTLET 002-A	OUTLET 002	12/07/2023	Hfpo

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluorodecane Sulfonic Acid	PFDS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluoropentanoic Acid	PFPA	0.017	17	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluorohexanoic Acid	PFHxA	0.054	54	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.004	4	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluorotetradecanoic Acid	PFTeA	0.0031	3.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluorotridecanoic Acid	PFTriA	0.0057	5.7	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluorooctane Sulfonamide	PFOSA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluorooctadecanoic Acid	PFODA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluorodecanoic Acid	PFDA	0.013	13	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluoroheptanoic Acid	PFHpA	0.042	42	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	Perfluorononanoic Acid	PFNA	0.015	15	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outfall003-082118-2	OUTLET 003	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0818-OUTLET 003-2	OUTLET 003	08/22/2018	PFOA	PFOA	1.0	1000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0818-OUTLET 003-2	OUTLET 003	08/22/2018	Hfpo Dimer Acid	HFPO-DA	0.23	230	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0818-OUTLET 003-2	OUTLET 003	08/22/2018	APFO	APFO	1.1	1100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0918-OUTLET 003	OUTLET 003	09/13/2018	PFOA	PFOA	7.3	7300	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0918-OUTLET 003	OUTLET 003	09/13/2018	Hfpo Dimer Acid	HFPO-DA	0.63	630	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.015	15	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	Y	J	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.002	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00065	0.65	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00049	0.49	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.015	15	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.003	3	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFOA	PFOA	1.9	1900	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFOS	PFOS	0.0029	2.9	Y	J	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.002	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorobutanoic Acid	PFBA	0.015	15	Y	J	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	NaDONA	NaDONA	0.00049	0.49	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.006	6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.005	5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.01	10	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.005	5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.002	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.005	5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.003	3	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.005	5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluoropentanoic Acid	PFPA	0.013	13	Y	J	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorohexanoic Acid	PFHxA	0.052	52	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.0029	2.9	Y	J	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.005	5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.005	5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorodecanoic Acid	PFDA	0.0077	7.7	Y	J	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.04	40	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	Perfluorononanoic Acid	PFNA	0.0079	7.9	Y	J	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTFALL_003-0918	OUTLET 003	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1018-OUTLET 003	OUTLET 003	10/11/2018	PFOA	PFOA	4.2	4200	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1018-OUTLET 003	OUTLET 003	10/11/2018	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1118-OUTLET 003	OUTLET 003	11/15/2018	PFOA	PFOA	13	13000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1118-OUTLET 003	OUTLET 003	11/15/2018	Hfpo Dimer Acid	HFPO-DA	31	31000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1118-OUTLET 003-1	OUTLET 003	11/29/2018	PFOA	PFOA	0.60	600	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1118-OUTLET 003-1	OUTLET 003	11/29/2018	Hfpo Dimer Acid	HFPO-DA	0.12	120	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1218-OUTLET 003	OUTLET 003	12/06/2018	PFOA	PFOA	5.6	5600	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1218-OUTLET 003	OUTLET 003	12/06/2018	Hfpo Dimer Acid	HFPO-DA	0.81	810	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW119-OUTLET 003	OUTLET 003	01/17/2019	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW119-OUTLET 003	OUTLET 003	01/17/2019	Hfpo Dimer Acid	HFPO-DA	0.51	510	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW219-OUTLET 003	OUTLET 003	02/14/2019	PFOA	PFOA	3.4	3400	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW219-OUTLET 003	OUTLET 003	02/14/2019	Hfpo Dimer Acid	HFPO-DA	0.80	800	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW319-OUTLET_003	OUTLET 003	03/07/2019	PFOA	PFOA	3.4	3400	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW319-OUTLET_003	OUTLET 003	03/07/2019	Hfpo Dimer Acid	HFPO-DA	0.47	470	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW419-OUTLET 003	OUTLET 003	04/04/2019	PFOA	PFOA	4.3	4300	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW419-OUTLET 003	OUTLET 003	04/04/2019	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	PFOA	PFOA	6.1	6100	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	PFOS	PFOS	0.0089	8.9	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluoroundecanoic Acid	PFUnA	0.0021	2.1	N	U		Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluoropentanoic Acid	PFPA	0.029	29	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0076	7.6	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	APFO	APFO	6.3	6300	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluorotridecanoic Acid	PFTriA	0.0025	2.5	N	U		Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluorodecanoic Acid	PFDA	0.037	37	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluoroheptanoic Acid	PFHpA	0.1	100	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-A	OUTLET 003	04/10/2019	Perfluorononanoic Acid	PFNA	0.034	34	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	PFOS	PFOS	0.0078	7.8	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluoroundecanoic Acid	PFUnA	0.0022	2.2	N	U		Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	PFOA	PFOA	5.5	5500	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluoropentanoic Acid	PFPA	0.029	29	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0071	7.1	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	APFO	APFO	5.7	5700	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluorotridecanoic Acid	PFTriA	0.0026	2.6	N	U		Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluorodecanoic Acid	PFDA	0.032	32	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluoroheptanoic Acid	PFHpA	0.1	100	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-1-041019-D-A	OUTLET 003	04/10/2019	Perfluorononanoic Acid	PFNA	0.028	28	Y			Liquid	DUP	Other Liquid	39.27219009	-81.6686172
Outlet 003-2-041019-A	OUTLET 003	04/10/2019	PFOA	PFOA	0.55	550	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-2-041019-A	OUTLET 003	04/10/2019	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-3-041019-A	OUTLET 003	04/10/2019	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-3-041019-A	OUTLET 003	04/10/2019	Hfpo Dimer Acid	HFPO-DA	0.24	240	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-4-041019-A	OUTLET 003	04/10/2019	PFOA	PFOA	34.0	34000	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-4-041019-A	OUTLET 003	04/10/2019	Hfpo Dimer Acid	HFPO-DA	7.4	7400	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-5a-041019-A	OUTLET 003	04/10/2019	PFOA	PFOA	0.53	530	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-5a-041019-A	OUTLET 003	04/10/2019	Hfpo Dimer Acid	HFPO-DA	0.38	380	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-5c-041019-A	OUTLET 003	04/10/2019	PFOA	PFOA	35.0	35000	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-5c-041019-A	OUTLET 003	04/10/2019	Hfpo Dimer Acid	HFPO-DA	10.0	10000	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-6-041019-A	OUTLET 003	04/10/2019	PFOA	PFOA	40.0	40000	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
Outlet 003-6-041019-A	OUTLET 003	04/10/2019	Hfpo Dimer Acid	HFPO-DA	17.0	17000	Y			Liquid	FS	Other Liquid	39.27219009	-81.6686172
SW519-OUTLET 003	OUTLET 003	05/02/2019	PFOA	PFOA	23	23000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW519-OUTLET 003	OUTLET 003	05/02/2019	Hfpo Dimer Acid	HFPO-DA	3.8	3800	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-060419-A	OUTLET 003	06/04/2019	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-060419-A	OUTLET 003	06/04/2019	PFOA	PFOA	4.1	4100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-060419-A	OUTLET 003	06/04/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-060419-A	OUTLET 003	06/04/2019	PFOS	PFOS	0.0089	8.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-060419-A	OUTLET 003	06/04/2019	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-060419-A	OUTLET 003	06/04/2019	Hfpo Dimer Acid	HFPO-DA	0.96

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
Outlet 003-4-060519-A	OUTLET 003	06/05/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-060519-A	OUTLET 003	06/05/2019	APFO	APFO	1.7	1700	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-060519-A	OUTLET 003	06/05/2019	Perfluorotridecanoic Acid	PFTriA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-060519-A	OUTLET 003	06/05/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-060519-A	OUTLET 003	06/05/2019	Perfluorodecanoic Acid	PFDA	0.0085	8.5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-060519-A	OUTLET 003	06/05/2019	Perfluoroheptanoic Acid	PFHpA	0.04	40	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-060519-A	OUTLET 003	06/05/2019	Perfluorononanoic Acid	PFNA	0.0092	9.2	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-060519-A	OUTLET 003	06/05/2019	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-060519-A	OUTLET 003	06/05/2019	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0051	5.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	PFOA	PFOA	7.4	7400	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0036	3.6	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	PFOS	PFOS	0.011	11	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluoroundecanoic Acid	PFUnA	0.014	14	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Hfpo Dimer Acid	HFPO-DA	6.9	6900	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.02	20	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0029	2.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluoropentanoic Acid	PFPA	0.1	100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluorohexanoic Acid	PFHxA	0.27	270	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.016	16	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluorotetradecanoic Acid	PFTeA	0.0054	5.4	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	APFO	APFO	7.7	7700	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluorotridecanoic Acid	PFTriA	0.011	11	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluorooctadecanoic Acid	PFODA	0.0021	2.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluorodecanoic Acid	PFDA	0.099	99	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluoroheptanoic Acid	PFHpA	0.24	240	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-060519-A	OUTLET 003	06/05/2019	Perfluorononanoic Acid	PFNA	0.068	68	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	PFOA	PFOA	16	16000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.088	88	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	PFOS	PFOS	0.053	53	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluoroundecanoic Acid	PFUnA	0.11	110	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Hfpo Dimer Acid	HFPO-DA	5.6	5600	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.20	200	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.030	30	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluoropentanoic Acid	PFPA	0.17	170	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluorohexanoic Acid	PFHxA	0.54	540	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.028	28	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluorotetradecanoic Acid	PFTeA	0.029	29	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	APFO	APFO	17	17000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluorotridecanoic Acid	PFTriA	0.13	130	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluorooctadecanoic Acid	PFODA	0.045	45	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluorodecanoic Acid	PFDA	0.16	160	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluoroheptanoic Acid	PFHpA	0.48	480	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-060519-A	Outlet 003	06/05/2019	Perfluorononanoic Acid	PFNA	0.099	99	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	DONA	DONA	0.00093	0.93	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.00093	0.93	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	PFOS	PFOS	0.0063	6.3	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluoroundecanoic Acid	PFUnA	0.0097	9.7	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluorododecanoic Acid	PFDoA	0.01	10	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0028	2.8	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluorohexanoic Acid	PFHxA	0.055	55	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0039	3.9	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluorotetradecanoic Acid	PFTeA	0.00093	0.93	N	<	UJ	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluorotridecanoic Acid	PFTriA	0.0037	3.7	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0028	2.8	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluorodecanoic Acid	PFDA	0.028	28	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluoroheptanoic Acid	PFHpA	0.046	46	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q19-OUTLET 003-A	OUTLET 003	06/06/2019	Perfluorononanoic Acid	PFNA	0.026	26	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW619-OUTLET 003	OUTLET 003	06/06/2019	PFOA	PFOA	2.5	2500	Y	H		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW619-OUTLET 003	OUTLET 003	06/06/2019	Hfpo Dimer Acid	HFPO-DA	0.97	970	Y	H	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW719-OUTLET 003	OUTLET 003	07/02/2019	PFOA	PFOA	6.9	6900	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW719-OUTLET 003	OUTLET 003	07/02/2019	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0022	2.2	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	PFOA	PFOA	5.9	5900	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	PFOS	PFOS	0.0089	8.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluoropentanoic Acid	PFPA	0.029	29	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluorohexanoic Acid	PFHxA	0.099	99	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0072	7.2	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	APFO	APFO	6.1	6100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluorotridecanoic Acid	PFTriA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluorodecanoic Acid	PFDA	0.045	45	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluoroheptanoic Acid	PFHpA	0.084	84	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A	Outlet 003	07/09/2019	Perfluorononanoic Acid	PFNA	0.04	40	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0022	2.2	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	PFOS	PFOS	0.0087	8.7	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	PFOA	PFOA	6.6	6600	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y		J	Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluoropentanoic Acid	PFPA	0.032	32	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0081	8.1	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	APFO	APFO	6.9	6900	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluorotridecanoic Acid	PFTriA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluorodecanoic Acid	PFDA	0.048	48	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluoroheptanoic Acid	PFHpA	0.092	92	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-070919-A-D	Outlet 003	07/09/2019	Perfluorononanoic Acid	PFNA	0.043	43	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-2-070919-A	Outlet 003	07/09/2019	PFOA	PFOA	0.47	470	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-2-070919-A	Outlet 003	07/09/2019	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-3-070919-A	Outlet 003	07/09/2019	PFOA	PFOA	2.5	2500	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-3-070919-A	Outlet 003	07/09/2019	Hfpo Dimer Acid	HFPO-DA	0.87	870	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-070919-A	Outlet 003	07/09/2019	PFOA	PFOA	0.28	280	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-070919-A	Outlet 003	07/09/2019	Hfpo Dimer Acid	HFPO-DA	0.084	84	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	PFOS	PFOS	0.0035	3.5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	PFOA	PFOA	2.1	2100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Hfpo Dimer Acid	HFPO-DA	0.8	800	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluoropentanoic Acid	PFPA	0.015	15	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluorohexanoic Acid	PFHxA	0.052	52	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0038	3.8	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	APFO	APFO	2.1	2100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluorotridecanoic Acid	PFTriA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluorodecanoic Acid	PFDA	0.012	12	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluoroheptanoic Acid	PFHpA	0.042	42	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-071019-A	Outlet 003	07/10/2019	Perfluorononanoic Acid	PFNA	0.01	10	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.018	18	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	PFOS	PFOS	0.050	50	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluoroundecanoic Acid	PFUnA	0.10	100	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	PFOA	PFOA	22.0	22000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.082	82	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.028	28	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Hfpo Dimer Acid	HFPO-DA	5.6	5600	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.18	180	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluoropentanoic Acid	PFPA	0.15	150	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluorohexanoic Acid	PFHxA	0.57	570	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.033	33	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.027	27	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	APFO	APFO	23.0	23000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluorotridecanoic Acid	PFTriA	0.12	120	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluorooctadecanoic Acid	PFODA	0.042	42	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluorodecanoic Acid	PFDA	0.16	160	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluoroheptanoic Acid	PFHpA	0.49	490	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-071019-A	Outlet 003	07/10/2019	Perfluorononanoic Acid	PFNA	0.12	120	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.019	19	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	PFOS	PFOS	0.051	51	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Perfluoroundecanoic Acid	PFUnA	0.10	100	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	PFOA	PFOA	25.0	25000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.084	84	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.028	28	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Hfpo Dimer Acid	HFPO-DA	11.0	11000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.19	190	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Perfluoropentanoic Acid	PFPA	0.16	160	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Perfluorohexanoic Acid	PFHxA	0.64	640	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.039	39	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.027	27	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	APFO	APFO	26.0	26000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A	Outlet 003	07/10/2019	Perfluorotridecanoic Acid	PFTriA	0.12	120	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-071019-A

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.014	14	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Hfpo Dimer Acid	HFPO-DA	3.6	3600	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.024	24	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluoropentanoic Acid	PFPA	0.05	50	Y	F1		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluorohexanoic Acid	PFHxA	0.18	180	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.013	13	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	APFO	APFO	11.0	11000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluorotridecanoic Acid	PFTriA	0.061	61	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluorodecanoic Acid	PFDA	0.12	120	Y	F1		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluoroheptanoic Acid	PFHpA	0.14	140	Y	F1		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A	Outlet 003	08/07/2019	Perfluorononanoic Acid	PFNA	0.088	88	Y	F1		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0095	9.5	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	PFOA	PFOA	9.8	9800	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	PFOS	PFOS	0.026	26	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluoroundecanoic Acid	PFUnA	0.053	53	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Hfpo Dimer Acid	HFPO-DA	2.7	2700	Y		J	Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.023	23	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluoropentanoic Acid	PFPA	0.052	52	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluorohexanoic Acid	PFHxA	0.18	180	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.014	14	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	APFO	APFO	10.0	10000	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluorotridecanoic Acid	PFTriA	0.062	62	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluorodecanoic Acid	PFDA	0.12	120	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluoroheptanoic Acid	PFHpA	0.14	140	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-1-STORM-080719-A-D	Outlet 003	08/07/2019	Perfluorononanoic Acid	PFNA	0.082	82	Y			Liquid	DUP	Other liquid	39.27219009	-81.6686172
Outlet 003-2-STORM-080719-A	Outlet 003	08/07/2019	PFOA	PFOA	2.8	2800	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-2-STORM-080719-A	Outlet 003	08/07/2019	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-3-STORM-080719-A	Outlet 003	08/07/2019	PFOA	PFOA	0.91	910	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-3-STORM-080719-A	Outlet 003	08/07/2019	Hfpo Dimer Acid	HFPO-DA	3.1	3100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-STORM-080719-A	Outlet 003	08/07/2019	PFOA	PFOA	2.4	2400	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-STORM-080719-A	Outlet 003	08/07/2019	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-STORM-080719-A	Outlet 003	08/07/2019	PFOA	PFOA	0.37	370	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-STORM-080719-A	Outlet 003	08/07/2019	Hfpo Dimer Acid	HFPO-DA	0.61	610	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0031	3.1	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	PFOA	PFOA	4.2	4200	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0077	7.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	PFOS	PFOS	0.0049	4.9	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluoroundecanoic Acid	PFUnA	0.0095	9.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0026	2.6	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluoropentanoic Acid	PFPA	0.035	35	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0079	7.9	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.0025	2.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	APFO	APFO	4.4	4400	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluorotridecanoic Acid	PFTriA	0.011	11	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluorooctadecanoic Acid	PFODA	0.0040	4	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluorodecanoic Acid	PFDA	0.035	35	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluoroheptanoic Acid	PFHpA	0.089	89	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-1-091019-A	OUTLET 003	09/10/2019	Perfluorononanoic Acid	PFNA	0.026	26	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-2-091019-A	OUTLET 003	09/10/2019	PFOA	PFOA	0.36	360	Y		J	LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-2-091019-A	OUTLET 003	09/10/2019	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-3-091019-A	OUTLET 003	09/10/2019	PFOA	PFOA	2.1	2100	Y		J	LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-3-091019-A	OUTLET 003	09/10/2019	Hfpo Dimer Acid	HFPO-DA	0.99	990	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-091019-A	OUTLET 003	09/10/2019	PFOA	PFOA	2.2	2200	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-091019-A	OUTLET 003	09/10/2019	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-091019-A	OUTLET 003	09/10/2019	PFOA	PFOA	0.24	240	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-091019-A	OUTLET 003	09/10/2019	Hfpo Dimer Acid	HFPO-DA	0.18	180	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0051	5.1	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	PFOS	PFOS	0.016	16	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluoroundecanoic Acid	PFUnA	0.0093	9.3	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	PFOA	PFOA	17	17000	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0075	7.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0034	3.4	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Hfpo Dimer Acid	HFPO-DA	6.5	6500	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.045	45	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluoropentanoic Acid	PFPA	0.12	120	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluorohexanoic Acid	PFHxA	0.47	470	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.028	28	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.0024	2.4	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	APFO	APFO	17	17000	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluorotridecanoic Acid	PFTriA	0.011	11	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluorooctadecanoic Acid	PFODA	0.0039	3.9	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluorodecanoic Acid	PFDA	0.17	170	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluoroheptanoic Acid	PFHpA	0.36	360	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-091019-A	OUTLET 003	09/10/2019	Perfluorononanoic Acid	PFNA	0.12	120	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0058	5.8	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	PFOS	PFOS	0.017	17	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluoroundecanoic Acid	PFUnA	0.0091	9.1	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	PFOA	PFOA	17	17000	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0074	7.4	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0035	3.5	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Hfpo Dimer Acid	HFPO-DA	6.3	6300	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.047	47	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluoropentanoic Acid	PFPA	0.13	130	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluorohexanoic Acid	PFHxA	0.47	470	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.029	29	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.0024	2.4	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	APFO	APFO	18	18000	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluorotridecanoic Acid	PFTriA	0.011	11	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluorooctadecanoic Acid	PFODA	0.0038	3.8	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluorodecanoic Acid	PFDA	0.15	150	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluoroheptanoic Acid	PFHpA	0.37	370	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-6-091019-A	OUTLET 003	09/10/2019	Perfluorononanoic Acid	PFNA	0.12	120	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003	OUTLET 003	09/12/2019	PFOA	PFOA	8.0	8000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003	OUTLET 003	09/12/2019	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0038	3.8	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	PFOS	PFOS	0.012	12	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0093	9.3	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluorodecanoic Acid	PFDA	0.076	76	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluoroheptanoic Acid	PFHpA	0.094	94	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q19-OUTLET 003-A	OUTLET 003	09/12/2019	Perfluorononanoic Acid	PFNA	0.057	57	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW919-OUTLET 003	OUTLET 003	09/25/2019	PFOA	PFOA	11	11000	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW919-OUTLET 003	OUTLET 003	09/25/2019	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1019-OUTLET 003	OUTLET 003	10/10/2019	PFOA	PFOA	4.5	4500	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1019-OUTLET 003	OUTLET 003	10/10/2019	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0036	3.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	PFOS	PFOS	0.011	11	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	PFOA	PFOA	5.2	5200	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.016	16	N	U,F1		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0055	5.5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.036	36	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluoropentanoic Acid	PFPA	0.035	35	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorohexanoic Acid	PFHxA	0.11	110	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0084	8.4	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorotetradecanoic Acid	PFTeA	0.0053	5.3	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	APFO	APFO	5.5	5500	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorotridecanoic Acid	PFTriA	0.024	24	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorooctadecanoic Acid	PFODA	0.0084	8.4	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorodecanoic Acid	PFDA	0.055	55	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluoroheptanoic Acid	PFHpA	0.069	69	Y	F1		Liquid	FS	Other liquid	39.27219009	-81.6686172
OUTLET 003-1-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorononanoic Acid	PFNA	0.047	47	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-2-STORM-102219-A	OUTLET 003	10/22/2019	PFOA	PFOA	0.31	310	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-2-STORM-102219-A	OUTLET 003	10/22/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-3-STORM-102219-A	OUTLET 003	10/22/2019	PFOA	PFOA	0.13	130	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-3-STORM-102219-A	OUTLET 003	10/22/2019	Hfpo Dimer Acid	HFPO-DA	0.12	120	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-STORM-102219-A	OUTLET 003	10/22/2019	PFOA	PFOA	15	15000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-4-STORM-102219-A	OUTLET 003	10/22/2019	Hfpo Dimer Acid	HFPO-DA	5.9	5900	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-STORM-102219-A	OUTLET 003	10/22/2019	PFOA	PFOA	0.32	320	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5a-STORM-102219-A	OUTLET 003	10/22/2019	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0096	9.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-STORM-102219-A	OUTLET 003	10/22/2019	PFOA	PFOA	19	19000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-STORM-102219-A	OUTLET 003	10/22/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.043	43	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-STORM-102219-A	OUTLET 003	10/22/2019	PFOS	PFOS	0.028	28	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
Outlet 003-5c-STORM-102219-A	OUTLET 003	10/22/2019

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1119-OUTLET 003	OUTLET 003	11/07/2019	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1219-OUTLET 003	OUTLET 003	12/12/2019	PFOA	PFOA	5.0	5000	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1219-OUTLET 003	OUTLET 003	12/12/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0120-OUTLET 003	OUTLET 003	01/09/2020	PFOA	PFOA	4.3	4300	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0120-OUTLET 003	OUTLET 003	01/09/2020	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0220-OUTLET 003	OUTLET 003	02/06/2020	PFOA	PFOA	4.0	4000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0220-OUTLET 003	OUTLET 003	02/06/2020	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003	OUTLET 003	02/06/2020	PFOA	PFOA	4.5	4500	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003	OUTLET 003	02/06/2020	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0320-OUTLET 003	OUTLET 003	03/05/2020	PFOA	PFOA	7.1	7100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0320-OUTLET 003	OUTLET 003	03/05/2020	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0026	2.6	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	PFOS	PFOS	0.0064	6.4	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluorohexanoic Acid	PFHxA	0.18	180	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.013	13	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluorodecanoic Acid	PFDA	0.047	47	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluoroheptanoic Acid	PFHpA	0.15	150	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q20-OUTLET 003-A	OUTLET 003	03/05/2020	Perfluorononanoic Acid	PFNA	0.042	42	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0420-OUTLET 003	OUTLET 003	04/02/2020	PFOA	PFOA	4.6	4600	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0420-OUTLET 003	OUTLET 003	04/02/2020	Hfpo Dimer Acid	HFPO-DA	3.9	3900	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0520-OUTLET 003	OUTLET 003	05/14/2020	PFOA	PFOA	15	15000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0520-OUTLET 003	OUTLET 003	05/14/2020	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	PFOS	PFOS	0.0029	2.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluoroundecanoic Acid	PFUnA	0.0024	2.4	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluorohexanoic Acid	PFHxA	0.0060	6	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0021	2.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluorotridecanoic Acid	PFTriA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluorodecanoic Acid	PFDA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluoroheptanoic Acid	PFHpA	0.0061	6.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q20-OUTLET 003-A	OUTLET 003	05/28/2020	Perfluorononanoic Acid	PFNA	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0620-OUTLET 003	OUTLET 003	06/04/2020	PFOA	PFOA	7.2	7200	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0620-OUTLET 003	OUTLET 003	06/04/2020	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0720-OUTLET 003	OUTLET 003	07/09/2020	PFOA	PFOA	10	10000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0720-OUTLET 003	OUTLET 003	07/09/2020	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0820-OUTLET 003	OUTLET 003	08/06/2020	PFOA	PFOA	4.3	4300	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0820-OUTLET 003	OUTLET 003	08/06/2020	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0036	3.6	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	PFOS	PFOS	0.010	10	Y		B	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluoroundecanoic Acid	PFUnA	0.012	12	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluorododecanoic Acid	PFDoA	0.024	24	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluorohexanoic Acid	PFHxA	0.069	69	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0053	5.3	Y		B	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.0047	4.7	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluorotridecanoic Acid	PFTriA	0.0072	7.2	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluorodecanoic Acid	PFDA	0.072	72	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluoroheptanoic Acid	PFHpA	0.058	58	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q20-OUTLET 003-A	OUTLET 003	08/13/2020	Perfluorononanoic Acid	PFNA	0.038	38	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0920-OUTLET 003	OUTLET 003	09/17/2020	PFOA	PFOA	7.7	7700	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0920-OUTLET 003	OUTLET 003	09/17/2020	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1020-OUTLET 003	OUTLET 003	10/08/2020	PFOA	PFOA	0.80	800	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1020-OUTLET 003	OUTLET 003	10/08/2020	Hfpo Dimer Acid	HFPO-DA	0.46	460	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0039	3.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	PFOA	PFOA	8.5	8500	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	PFOS	PFOS	0.019	19	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluoroundecanoic Acid	PFUnA	0.0065	6.5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluorobutanoic Acid	PFBA	0.061	61	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluorododecanoic Acid	PFDoA	0.0047	4.7	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluoropentanoic Acid	PFPA	0.053	53	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluorohexanoic Acid	PFHxA	0.15	150	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.011	11	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluorotetradecanoic Acid	PFTeA	0.0033	3.3	Y	I	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluorotridecanoic Acid	PFTriA	0.0045	4.5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluorodecanoic Acid	PFDA	0.14	140	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluoroheptanoic Acid	PFHpA	0.12	120	Y		J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW4Q20-OUTLET 003-A	OUTLET 003	11/19/2020	Perfluorononanoic Acid	PFNA	0.11	110	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1220-OUTLET 003 121020	OUTLET 003	12/10/2020	PFOA	PFOA	10	10000	Y	*1	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1220-OUTLET 003 121020	OUTLET 003	12/10/2020	Hfpo Dimer Acid	HFPO-DA	3.4	3400	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0121-OUTLET 003-012121	OUTLET 003	01/21/2021	PFOA	PFOA	0.67	670	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0121-OUTLET 003-012121	OUTLET 003	01/21/2021	Hfpo Dimer Acid	HFPO-DA	0.30	300	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0057	5.7	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	PFOA	PFOA	0.70	700	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	PFOS	PFOS	0.0031	3.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluorobutanoic Acid	PFBA	0.010	10	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluoropentanoic Acid	PFPA	0.0067	6.7	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluorohexanoic Acid	PFHxA	0.021	21	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluorodecanoic Acid	PFDA	0.0085	8.5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluoroheptanoic Acid	PFHpA	0.011	11	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q21-OUTLET 003-A-012121	OUTLET 003	01/21/2021	Perfluorononanoic Acid	PFNA	0.0065	6.5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0221-OUTLET 003-021121	OUTLET 003	02/11/2021	PFOA	PFOA	3.1	3100	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0221-OUTLET 003-021121	OUTLET 003	02/11/2021	Hfpo Dimer Acid	HFPO-DA	0.96	960	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0321-OUTLET 003-031121	OUTLET 003	03/11/2021	PFOA	PFOA	7.0	7000	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0321-OUTLET 003-031121	OUTLET 003	03/11/2021	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	PFOA	PFOA	0.51	510	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	PFOS	PFOS	0.0028	2.8	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluoroundecanoic Acid	PFUnA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluorobutanoic Acid	PFBA	0.0092	9.2	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluorododecanoic Acid	PFDoA	0.0057	5.7	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluoropentanoic Acid	PFPA	0.0051	5.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluorohexanoic Acid	PFHxA	0.016	16	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluorotetradecanoic Acid	PFTeA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluorotridecanoic Acid	PFTriA	0.0079	7.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluorodecanoic Acid	PFDA	0.015	15	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluoroheptanoic Acid	PFHpA	0.012	12	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q21-OUTLET 003-A	OUTLET 003	04/08/2021	Perfluorononanoic Acid	PFNA	0.0050	5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0521-OUTLET 003	OUTLET 003	05/06/2021	PFOA	PFOA	5.9	5900	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0521-OUTLET 003	OUTLET 003	05/06/2021	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0621-OUTLET 003-061721	OUTLET 003	06/17/2021	PFOA	PFOA	0.47	470	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0621-OUTLET 003-061721	OUTLET 003	06/17/2021	Hfpo Dimer Acid	HFPO-DA	0.20	200	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q21-OUTLET 003-A-071521	OUTLET 003	07/15/2021	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q21-OUTLET 003-A-071521	OUTLET 003	07/15/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0041	4.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q21-OUTLET 003-A-071521	OUTLET 003	07/15/2021	PFOA	PFOA	0.70	700	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q21-OUTLET 003-A-071521	OUTLET 003	07/15/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q21-OUTLET 003-A-071521	OUTLET 003	07/15/2021	PFOS	PFOS	0.0047	4.7	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q21-OUTLET 003-A-071521	OUTLET 003	07/15/2021	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q21-OUTLET 003-A-071521	OUTLET 003	07/15/2021	Perfluorobutanoic Acid	PFBA	0.

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1Q22-OUTLET 003-A-011322	OUTLET 003	01/13/2022	Perfluoropentanoic Acid	PFPA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q22-OUTLET 003-A-011322	OUTLET 003	01/13/2022	Perfluorohexanoic Acid	PFHxA	0.0043	4.3	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q22-OUTLET 003-A-011322	OUTLET 003	01/13/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q22-OUTLET 003-A-011322	OUTLET 003	01/13/2022	Perfluorotetradecanoic Acid	PFTeA	0.0026	2.6	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q22-OUTLET 003-A-011322	OUTLET 003	01/13/2022	Perfluorotridecanoic Acid	PFTriA	0.0030	3	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q22-OUTLET 003-A-011322	OUTLET 003	01/13/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q22-OUTLET 003-A-011322	OUTLET 003	01/13/2022	Perfluorodecanoic Acid	PFDA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q22-OUTLET 003-A-011322	OUTLET 003	01/13/2022	Perfluoroheptanoic Acid	PFHpA	0.0045	4.5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1Q22-OUTLET 003-A-011322	OUTLET 003	01/13/2022	Perfluorononanoic Acid	PFNA	0.0032	3.2	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0222-OUTLET 003 021022	OUTLET 003	02/10/2022	PFOA	PFOA	0.22	220	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0222-OUTLET 003 021022	OUTLET 003	02/10/2022	Hfpo Dimer Acid	HFPO-DA	0.11	110	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	PFOA	PFOA	0.14	140	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	PFOS	PFOS	0.0031	3.1	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0021	2.1	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluorobutanoic Acid	PFBA	0.0041	4.1	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Hfpo Dimer Acid	HFPO-DA	0.16	160	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluoropentanoic Acid	PFPA	0.0030	3	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluorohexanoic Acid	PFHxA	0.0042	4.2	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0036	3.6	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0042	4.2	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0222-OUTLET 003-A	OUTLET 003	02/16/2022	Perfluorononanoic Acid	PFNA	0.0030	3	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
SW0322-OUTLET 003-030322	OUTLET 003	03/03/2022	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0322-OUTLET 003-030322	OUTLET 003	03/03/2022	Hfpo Dimer Acid	HFPO-DA	0.15	150	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	PFOA	PFOA	0.097	97	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	PFOS	PFOS	0.0018	1.8	Y	I	J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Hfpo Dimer Acid	HFPO-DA	0.18	180	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluoropentanoic Acid	PFPA	0.0026	2.6	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluorohexanoic Acid	PFHxA	0.0066	6.6	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0029	2.9	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluorodecanoic Acid	PFDA	0.0028	2.8	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0045	4.5	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0322-OUTLET 003-A	OUTLET 003	03/16/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	PFOS	PFOS	0.0040	4	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluoroundecanoic Acid	PFUnA	0.0071	7.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Hfpo Dimer Acid	HFPO-DA	0.22	220	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluorododecanoic Acid	PFDoA	0.0057	5.7	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluoropentanoic Acid	PFPA	0.0039	3.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluorohexanoic Acid	PFHxA	0.0049	4.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0022	2.2	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluorotetradecanoic Acid	PFTeA	0.0038	3.8	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluorotridecanoic Acid	PFTriA	0.0059	5.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluorodecanoic Acid	PFDA	0.0045	4.5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluoroheptanoic Acid	PFHpA	0.0049	4.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q22-OUTLET 003-A-041422	OUTLET 003	04/14/2022	Perfluorononanoic Acid	PFNA	0.0040	4	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0522-OUTLET 003-050522	OUTLET 003	05/05/2022	PFOA	PFOA	0.12	120	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0522-OUTLET 003-050522	OUTLET 003	05/05/2022	Hfpo Dimer Acid	HFPO-DA	0.27	270	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	DONA	DONA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	PFOA	PFOA	0.13	130	Y	cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	PFOS	PFOS	0.0049	4.9	Y	I,cn	J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Hfpo Dimer Acid	HFPO-DA	0.091	91	Y	cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluoropentanoic Acid	PFPA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluorohexanoic Acid	PFHxA	0.0038	3.8	Y	cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0023	2.3	Y	cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U,cn	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluoroheptanoic Acid	PFHpA	0.0021	2.1	Y	cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV0422-OUTLET 003-A	OUTLET 003	05/11/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	Y	cn		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	PFOA	PFOA	0.093	93	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	PFOS	PFOS	0.0040	4	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Hfpo Dimer Acid	HFPO-DA	0.10	100	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluoropentanoic Acid	PFPA	0.0024	2.4	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluorohexanoic Acid	PFHxA	0.0047	4.7	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0023	2.3	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluoroheptanoic Acid	PFHpA	0.0028	2.8	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-0622-OUTLET 003-A	Outlet 003	06/01/2022	Perfluorononanoic Acid	PFNA	0.0020	2	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0622-OUTLET 003-060222	OUTLET 003	06/02/2022	PFOA	PFOA	0.072	72	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0622-OUTLET 003-060222	OUTLET 003	06/02/2022	Hfpo Dimer Acid	HFPO-DA	0.20	200	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0033	3.3	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	PFOA	PFOA	0.094	94	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	PFOS	PFOS	0.0045	4.5	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Hfpo Dimer Acid	HFPO-DA	0.31	310	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluoropentanoic Acid	PFPA	0.0024	2.4	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluorohexanoic Acid	PFHxA	0.0042	4.2	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0021	2.1	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluoroheptanoic Acid	PFHpA	0.0030	3	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-063022-OUTLET 003-A	Outlet 003	06/30/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
SW3Q22-OUTLET 003-A-070722	OUTLET 003	07/07/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0025	2.5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q22-OUTLET 003-A-070722	OUTLET 003	07/07/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q22-OUTLET 003-A-070722	OUTLET 003	07/07/2022	PFOA	PFOA	0.17	170	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q22-OUTLET 003-A-070722	OUTLET 003	07/07/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q22-OUTLET 003-A-070722	OUTLET 003	07/07/2022	PFOS	PFOS	0.0046	4.6	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q22-OUTLET 003-A-070722	OUTLET 003	07/07/2022	Perfluoroundecanoic Acid	PFUnA	0.0050	5	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q22-OUTLET 003-A-070722	OUTLET 003	07/07/2022	Perfluorobutanoic Acid	PFBA	0.0084	8.4	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q22-OUTLET 003-A-070722	OUTLET 003	07/07/2022	Hfpo Dimer Acid	HFPO-DA	0.71	710	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q22-OUTLET 003-A-070722	OUTLET 003	07/07/2022	Perfluorododecanoic Acid	PFDoA	0.0041	4.1	Y			Liquid	FS	Other liquid	39.27219

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	PFOS	PFOS	0.0036	3.6	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Hfpo Dimer Acid	HFPO-DA	0.30	300	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluoropentanoic Acid	PFPA	0.0033	3.3	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluorohexanoic Acid	PFHxA	0.0045	4.5	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0041	4.1	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluorodecanoic Acid	PFDA	0.0019	1.9	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluoroheptanoic Acid	PFHpA	0.0034	3.4	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q22-OUTLET 003-A-100622	OUTLET 003	10/06/2022	Perfluorononanoic Acid	PFNA	0.0023	2.3	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0028	2.8	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	PFOA	PFOA	0.24	240	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	PFOS	PFOS	0.0052	5.2	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Hfpo Dimer Acid	HFPO-DA	0.14	140	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluoropentanoic Acid	PFPA	0.0024	2.4	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluorohexanoic Acid	PFHxA	0.0046	4.6	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0055	5.5	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluoroheptanoic Acid	PFHpA	0.0040	4	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1122-OUTLET 003-A	Outlet 003	11/02/2022	Perfluorononanoic Acid	PFNA	0.0019	1.9	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
SW1122-OUTLET 003-110322	OUTLET 003	11/03/2022	PFOA	PFOA	0.263	263	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1122-OUTLET 003-110322	OUTLET 003	11/03/2022	Hfpo Dimer Acid	HFPO-DA	0.185	185	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorononanesulfonic Acid	PFNS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	DONA	DONA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	2-Perfluorodecylethanoic Acid	10:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Hydro-PS Acid	Hydro-PS Acid	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFECA-A	PFECA-A	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	R-PSDCA	R-PSDCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	R-PSDA	R-PSDA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFECA B	PFECA B	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFOA	PFOA	0.12	120	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFO3OA	PFO3OA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PPF Acid	PPF Acid	0.037	37	Y	*-,cn	J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluoropropanesulfonic Acid	PFPrS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFOS	PFOS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	R-EVE	R-EVE	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorobutanoic Acid	PFBA	0.0045	4.5	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFECA-F	PFECA-F	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFO2HxA	PFO2HxA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFECA-G	PFECA-G	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	MTP	MTP	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Hfpo Dimer Acid	HFPO-DA	0.14	140	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorohexanesulfonamide	FHXSA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	EVE Acid	EVE Acid	0.0089	8.9	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	NVHOS, Acid Form	NVHOS, Acid Form	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorodecane Sulfonic Acid	PFDS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFMOAA	PFMOAA	0.0036	3.6	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PEPA	PEPA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluoropentanoic Acid	PFPA	0.0033	3.3	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PS Acid	PS Acid	0.0089	8.9	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorobutylsulphonamide	FBSA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorohexanoic Acid	PFHxA	0.0053	5.3	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0038	3.8	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorooctane Sulfonamide	PFOSA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PMPA	PMPA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorooctadecanoic Acid	PFODA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Hydrolyzed PSDA	Hydrolyzed PSDA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluoroheptanoic Acid	PFHpA	0.0047	4.7	Y		J	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFO4DA	PFO4DA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	PFO5DA	PFO5DA	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	2-Perfluorohexylethanoic Acid	6:2 FTCA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
Outfall 003-120122	OUTLET 003	12/01/2022	Hydro-EVE Acid	Hydro-EVE Acid	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27219009	-81.6686172
SW1222-OUTLET 003-120822	OUTLET 003	12/08/2022	PFOA	PFOA	0.152	152	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1222-OUTLET 003-120822	OUTLET 003	12/08/2022	Hfpo Dimer Acid	HFPO-DA	0.268	268	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	PFOA	PFOA	0.15	150	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	PFOS	PFOS	0.0021	2.1	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluorobutanoic Acid	PFBA	0.0055	5.5	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.24	240	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluoropentanoic Acid	PFPA	0.0034	3.4	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluorohexanoic Acid	PFHxA	0.0058	5.8	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0047	4.7	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluoroheptanoic Acid	PFHpA	0.0055	5.5	Y			LIQUID	FS	Other Liquid	39.27219009	-81.6686172
OHRV-1222-OUTLET 003-A	OUTLET 003	12/12/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00187	1.87	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	DONA	DONA	0.00706	7.06	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	PFOA	PFOA	0.191	191	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00706	7.06	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	PFOS	PFOS	0.00244	2.44	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	Perfluoroundecanoic Acid	PFUnA	0.00396	3.96	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	Perfluorobutanoic Acid	PFBA	0.00706	7.06	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	Hfpo Dimer Acid	HFPO-DA	0.311	311	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	Perfluorododecanoic Acid	PFDoA	0.00201	2.01	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1Q23-OUTLET 003-A-011223	OUTLET 003	01/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00706	7.06	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	Perfluorohexanoic Acid	PFHxA	0.0119	11.9	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00862	8.62	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00882	8.82	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	Perfluorotridecanoic Acid	PFTriA	0.00403	4.03	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0441	44.1	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	Perfluorodecanoic Acid	PFDA	0.00675	6.75	Y	I	J	Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	Perfluoroheptanoic Acid	PFHpA	0.0111	11.1	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0323-OUTLET 003-030223	OUTLET 003	03/02/2023	Perfluorononanoic Acid	PFNA	0.00814	8.14	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	PFECA B	PFECA B	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	DONA	DONA	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	PFECA-A	PFECA-A	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0439	43.9	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	PFOA	PFOA	0.107	107	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	PFOS	PFOS	0.00220	2.2	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorobutanoic Acid	PFBA	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	PFECA-F	PFECA-F	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Hfpo Dimer Acid	HFPO-DA	0.0956	95.6	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00702	7.02	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00702	7.02	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluoropentanoic Acid	PFPA	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorohexanoic Acid	PFHxA	0.00470	4.7	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00310	3.1	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00878	8.78	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0439	43.9	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00351	3.51	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorodecanoic Acid	PFDA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluoroheptanoic Acid	PFHpA	0.00255	2.55	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW2Q23-OUTLET 003-A-041323	OUTLET 003	04/13/2023	Perfluorononanoic Acid	PFNA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	PFECA B	PFECA B	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	DONA	DONA	0.00700	7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0438	43.8	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	PFECA-A	PFECA-A	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorononanesulfonic Acid	PFNS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	PFOA	PFOA	0.113	113	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00700	7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	PFOS	PFOS	0.00224	2.24	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluoroundecanoic Acid	PFUnA	0.00496	4.96	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorobutanoic Acid	PFBA	0.00700	7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	PFECA-F	PFECA-F	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00700	7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00700	7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Hfpo Dimer Acid	HFPO-DA	0.222	222	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0175	17.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00700	7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorododecanoic Acid	PFDoA	0.00273	2.73	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00700	7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluoropentanoic Acid	PFPA	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorohexanoic Acid	PFHxA	0.00467	4.67	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00277	2.77	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00875	8.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorotetradecanoic Acid	PFTeA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorotridecanoic Acid	PFTriA	0.00352	3.52	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorooctane Sulfonamide	PFOSA	0.00175	1.75	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0438	43.8	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00350	3.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0175	17.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorodecanoic Acid	PFDA	0.00307	3.07	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluoroheptanoic Acid	PFHpA	0.00506	5.06	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0523-OUTLET 003-A-050423	OUTLET 003	05/04/2023	Perfluorononanoic Acid	PFNA	0.00391	3.91	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorononanesulfonic Acid	PFNS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00221	2.21	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	PFECA B	PFECA B	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	DONA	DONA	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0440	44	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	PFECA-A	PFECA-A	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	PFOA	PFOA	0.116	116	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	PFOS	PFOS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluoroundecanoic Acid	PFUnA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorobutanoic Acid	PFBA	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	PFECA-F	PFECA-F	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Hfpo Dimer Acid	HFPO-DA	0.113	113	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0176	17.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluoropentanoic Acid	PFPA	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorohexanoic Acid	PFHxA	0.00431	4.31	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00320	3.2	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00879	8.79	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorotridecanoic Acid	PFTriA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0440	44	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorodecanoic Acid	PFDA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluoroheptanoic Acid	PFHpA	0.00383	3.83	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0623-OUTLET 003-A-060123	OUTLET 003	06/01/2023	Perfluorononanoic Acid	PFNA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q23-OUTLET 003-A-071323	OUTLET 003	07/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q23-OUTLET 003-A-071323	OUTLET 003	07/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q23-OUTLET 003-A-071323	OUTLET 003	07/13/2023	PFECA B	PFECA B	0.00342	3.42	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q23-OUTLET 003-A-071323	OUTLET 003	07/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q23-OUTLET 003-A-071323	OUTLET 003	07/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00236	2.36	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q23-OUTLET 003-A-071323	OUTLET 003	07/13/2023	DONA	DONA	0.00683	6.83	N	U,cn		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q23-OUTLET 003-A-071323	OUTLET 003	07/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW3Q23-OUTLET 003-A-071323	O

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0823-OUTLET 003-A	OUTLET 003	08/03/2023	Perfluorotridecanoic Acid	PFTriA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0823-OUTLET 003-A	OUTLET 003	08/03/2023	Perfluorooctane Sulfonamide	PFOSA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0823-OUTLET 003-A	OUTLET 003	08/03/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0441	44.1	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0823-OUTLET 003-A	OUTLET 003	08/03/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0823-OUTLET 003-A	OUTLET 003	08/03/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0177	17.7	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0823-OUTLET 003-A	OUTLET 003	08/03/2023	Perfluorodecanoic Acid	PFDA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0823-OUTLET 003-A	OUTLET 003	08/03/2023	Perfluoroheptanoic Acid	PFHpA	0.00386	3.86	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0823-OUTLET 003-A	OUTLET 003	08/03/2023	Perfluorononanoic Acid	PFNA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00317	3.17	Y	cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	PFECA B	PFECA B	0.00344	3.44	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	DONA	DONA	0.00689	6.89	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0430	43	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	PFECA-A	PFECA-A	0.00344	3.44	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorononanesulfonic Acid	PFNS	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00344	3.44	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	PFOA	PFOA	0.172	172	Y	cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00689	6.89	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	PFOS	PFOS	0.00359	3.59	Y	cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluoroundecanoic Acid	PFUnA	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorobutanoic Acid	PFBA	0.0110	11	Y	cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	PFECA-F	PFECA-F	0.00344	3.44	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00689	6.89	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00689	6.89	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Hfpo Dimer Acid	HFPO-DA	0.379	379	Y	cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0172	17.2	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00689	6.89	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorododecanoic Acid	PFDoA	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00689	6.89	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluoropentanoic Acid	PFPA	0.00359	3.59	Y	l,cn	J	LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorohexanoic Acid	PFHxA	0.00645	6.45	Y	cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00453	4.53	Y	cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00861	8.61	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorotetradecanoic Acid	PFTeA	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorotridecanoic Acid	PFTriA	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorooctane Sulfonamide	PFOSA	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0430	43	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00344	3.44	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0172	17.2	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorodecanoic Acid	PFDA	0.00172	1.72	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluoroheptanoic Acid	PFHpA	0.00528	5.28	Y	cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW0923-OUTLET 003-A-090723	OUTLET 003	09/07/2023	Perfluorononanoic Acid	PFNA	0.00439	4.39	Y	cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorononanesulfonic Acid	PFNS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	PFECA-A	PFECA-A	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0435	43.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	DONA	DONA	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00401	4.01	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	PFECA B	PFECA B	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	PFOA	PFOA	0.0893	89.3	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	PFOS	PFOS	0.00231	2.31	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluoroundecanoic Acid	PFUnA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorobutanoic Acid	PFBA	0.00793	7.93	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	PFECA-F	PFECA-F	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Hfpo Dimer Acid	HFPO-DA	0.112	112	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0174	17.4	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorododecanoic Acid	PFDoA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluoropentanoic Acid	PFPA	0.00419	4.19	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorohexanoic Acid	PFHxA	0.00539	5.39	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00391	3.91	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00870	8.7	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorotetradecanoic Acid	PFTeA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorotridecanoic Acid	PFTriA	0.00174	1.74	N	U,cn		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorooctane Sulfonamide	PFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0435	43.5	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0174	17.4	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorodecanoic Acid	PFDA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluoroheptanoic Acid	PFHpA	0.00359	3.59	Y			LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW4Q23-OUTLET 003-A-100523	OUTLET 003	10/05/2023	Perfluorononanoic Acid	PFNA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorononanesulfonic Acid	PFNS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	PFECA-A	PFECA-A	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0440	44	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	DONA	DONA	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	PFECA B	PFECA B	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00492	4.92	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	PFOA	PFOA	0.197	197	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	PFOS	PFOS	0.00383	3.83	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluoroundecanoic Acid	PFUnA	0.00181	1.81	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorobutanoic Acid	PFBA	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	PFECA-F	PFECA-F	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Hfpo Dimer Acid	HFPO-DA	0.213	213	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0176	17.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00703	7.03	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluoropentanoic Acid	PFPA	0.00507	5.07	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorohexanoic Acid	PFHxA	0.00955	9.55	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00484	4.84	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00879	8.79	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorotridecanoic Acid	PFTriA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0440	44	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00352	3.52	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorodecanoic Acid	PFDA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluoroheptanoic Acid	PFHpA	0.00488	4.88	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1123-OUTLET 003-A-110223	OUTLET 003	11/02/2023	Perfluorononanoic Acid	PFNA	0.00211	2.11	Y			Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00794	7.94	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00794	7.94	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00794	7.94	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0198	19.8	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0198	19.8	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00992	9.92	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0496	49.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00794	7.94	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0496	49.6	N	U		Liquid	FS	Other liquid	39.27219009	-81.6686172
SW1223-OUTLET 003-A	OUTLET 003	12/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00794	7.

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluoropentanoic Acid	PFPA	0.074	74	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluorohexanoic Acid	PFHxA	0.02	20	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluorotetradecanoic Acid	PFTeA	0.0041	4.1	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluorotridecanoic Acid	PFTriA	0.013	13	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluorooctane Sulfonamide	PFOSA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluorooctadecanoic Acid	PFODA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluorodecanoic Acid	PFDA	0.0064	6.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluoroheptanoic Acid	PFHpA	0.025	25	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	Perfluorononanoic Acid	PFNA	0.0087	8.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall005-082118-2	OUTLET 005	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
DA0818-OUTLET 005-082318	OUTLET 005	08/23/2018	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
DA0818-OUTLET 005-083018	OUTLET 005	08/30/2018	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0918-OUTLET 005-090618	OUTLET 005	09/06/2018	PFOA	PFOA	0.27	270	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0918-OUTLET 005-090618	OUTLET 005	09/06/2018	Hfpo Dimer Acid	HFPO-DA	3.6	3600	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0918-OUTLET 005-091318	OUTLET 005	09/13/2018	PFOA	PFOA	0.3	300	Y		J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0918-OUTLET 005-091318	OUTLET 005	09/13/2018	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0074	7.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00048	0.48	N	U	UJ	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00064	0.64	N	U	UJ	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00099	0.99	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.0042	4.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0074	7.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFOS	PFOS	0.0049	4.9	Y	J	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.014	14	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorobutanoic Acid	PFBA	0.041	41	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	NaDONA	NaDONA	0.00048	0.48	N	U	UJ	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFOA	PFOA	1.7	1700	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0015	1.5	Y	J	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0031	3.1	Y	J	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Hfpo Dimer Acid	HFPO-DA	8.4	8400	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.003	3	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0038	3.8	Y	J	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.0027	2.7	Y	J	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.005	5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00074	0.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluoropentanoic Acid	PFPA	0.038	38	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorohexanoic Acid	PFHxA	0.09	90	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.025	25	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	Y	J	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorotridecanoic Acid	PFTriA	0.0059	5.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.0012	1.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.0012	1.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorodecanoic Acid	PFDA	0.012	12	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.069	69	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	Perfluorononanoic Acid	PFNA	0.026	26	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
OUTFALL_005-0918	OUTLET 005	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0918-OUTLET 005-092018	OUTLET 005	09/20/2018	PFOA	PFOA	2.3	2300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0918-OUTLET 005-092018	OUTLET 005	09/20/2018	Hfpo Dimer Acid	HFPO-DA	11.0	11000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0918-OUTLET 005-092718	OUTLET 005	09/27/2018	PFOA	PFOA	2.0	2000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0918-OUTLET 005-092718	OUTLET 005	09/27/2018	Hfpo Dimer Acid	HFPO-DA	9.4	9400	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1018-OUTLET 005-100418	OUTLET 005	10/04/2018	PFOA	PFOA	1.7	1700	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1018-OUTLET 005-100418	OUTLET 005	10/04/2018	Hfpo Dimer Acid	HFPO-DA	12.0	12000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1018-OUTLET 005-101118	OUTLET 005	10/11/2018	PFOA	PFOA	0.54	540	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1018-OUTLET 005-101118	OUTLET 005	10/11/2018	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1018-OUTLET 005-101818	OUTLET 005	10/18/2018	PFOA	PFOA	0.32	320	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1018-OUTLET 005-101818	OUTLET 005	10/18/2018	Hfpo Dimer Acid	HFPO-DA	8.1	8100	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1018-OUTLET 005-102518	OUTLET 005	10/25/2018	PFOA	PFOA	0.3	300	Y	F1	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1018-OUTLET 005-102518	OUTLET 005	10/25/2018	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-110118	OUTLET 005	11/01/2018	PFOA	PFOA	0.32	320	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-110118	OUTLET 005	11/01/2018	Hfpo Dimer Acid	HFPO-DA	0.65	650	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-110818	OUTLET 005	11/08/2018	PFOA	PFOA	0.29	290	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-110818	OUTLET 005	11/08/2018	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET005-111518	OUTLET 005	11/15/2018	PFOA	PFOA	0.3	300	Y	F1	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET005-111518	OUTLET 005	11/15/2018	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-112018	OUTLET 005	11/20/2018	PFOA	PFOA	0.3	300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-112018	OUTLET 005	11/20/2018	Hfpo Dimer Acid	HFPO-DA	6.3	6300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-112918	OUTLET 005	11/29/2018	PFOA	PFOA	0.34	340	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-112918	OUTLET 005	11/29/2018	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005	OUTLET 005	11/29/2018	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005	OUTLET 005	11/29/2018	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005-120618	OUTLET 005	12/06/2018	PFOA	PFOA	0.34	340	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005-120618	OUTLET 005	12/06/2018	Hfpo Dimer Acid	HFPO-DA	4.3	4300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005-121318	OUTLET 005	12/13/2018	PFOA	PFOA	0.3	300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005-121318	OUTLET 005	12/13/2018	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW 1218-OUTLET 005-122018	OUTLET 005	12/20/2018	PFOA	PFOA	0.28	280	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW 1218-OUTLET 005-122018	OUTLET 005	12/20/2018	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005-122718	OUTLET 005	12/27/2018	PFOA	PFOA	0.28	280	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005-122718	OUTLET 005	12/27/2018	Hfpo Dimer Acid	HFPO-DA	3.6	3600	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-010319	OUTLET 005	01/03/2019	PFOA	PFOA	0.27	270	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1118-OUTLET 005-010319	OUTLET 005	01/03/2019	Hfpo Dimer Acid	HFPO-DA	3.1	3100	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0119-OUTLET 005-011019	OUTLET 005	01/10/2019	PFOA	PFOA	0.25	250	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0119-OUTLET 005-011019	OUTLET 005	01/10/2019	Hfpo Dimer Acid	HFPO-DA	23.0	23000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0119-OUTLET005-011719	OUTLET 005	01/17/2019	PFOA	PFOA	0.24	240	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0119-OUTLET005-011719	OUTLET 005	01/17/2019	Hfpo Dimer Acid	HFPO-DA	6.2	6200	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0119-OUTLET 005-012419	OUTLET 005	01/24/2019	PFOA	PFOA	0.3	300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0119-OUTLET 005-012419	OUTLET 005	01/24/2019	Hfpo Dimer Acid	HFPO-DA	4.3	4300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005-013119	OUTLET 005	01/31/2019	PFOA	PFOA	0.32	320	Y	*	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1218-OUTLET 005-013119	OUTLET 005	01/31/2019	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0219-OUTLET 005-020719	OUTLET 005	02/07/2019	PFOA	PFOA	0.45	450	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0219-OUTLET 005-020719	OUTLET 005	02/07/2019	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0119-OUTLET 005-021419	OUTLET 005	02/14/2019	PFOA	PFOA	0.37	370	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0119-OUTLET 005-021419	OUTLET 005	02/14/2019	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0219-OUTLET 005-022119	OUTLET 005	02/21/2019	PFOA	PFOA	0.37	370	Y	*	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0219-OUTLET 005-022119	OUTLET 005	02/21/2019	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0219-OUTLET 005-022819	OUTLET 005	02/28/2019	PFOA	PFOA	0.33	330	Y	*	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0219-OUTLET 005-022819	OUTLET 005	02/28/2019	Hfpo Dimer Acid	HFPO-DA	3.6	3600	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0319-OUTLET 005-030719	OUTLET 005	03/07/2019	PFOA	PFOA	255.0	255000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0319-OUTLET 005-030719	OUTLET 005	03/07/2019	Hfpo Dimer Acid	HFPO-DA	255.0	255000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0219-OUTLET 005-031419	OUTLET 005	03/14/2019	PFOA	PFOA	0.32	320	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0219-OUTLET 005-031419	OUTLET 005	03/14/2019	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0319-OUTLET 005-032119	OUTLET 005	03/21/2019	PFOA	PFOA	0.24	240	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0319-OUTLET 005-032119	OUTLET 005	03/21/2019	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0319-OUTLET 005-032819	OUTLET 005	03/28/2019	PFOA	PFOA	0.29	290	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0319-OUTLET 005-032819	OUTLET 005	03/28/2019	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW-319-OUTLET 005-040419	OUTLET 005	04/04/2019	PFOA	PFOA	0.42	420	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW-319-OUTLET 005-040419	OUTLET 005	04/04/2019	Hfpo Dimer Acid	HFPO-DA	4.0	4000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-041119	OUTLET 005	04/11/2019	PFOA	PFOA	0.38	380	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-041119	OUTLET 005	04/11/2019	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-041819	OUTLET 005	04/18/2019	PFOA	PFOA	0.38	380	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-041819	OUTLET 005	04/18/2019	Hfpo Dimer Acid	HFPO-DA	3.1	3100	Y		J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-042519	OUTLET 005	04/25/2019	PFOA	PFOA	0.39	390	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-042519	OUTLET 005	04/25/2019	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-050219	OUTLET 005	05/02/2019	PFOA	PFOA	0.41	410	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-050219	OUTLET 005	05/02/2019	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-050919	OUTLET 005	05/09/2019	PFOA	PFOA	0.34	340	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0419-OUTLET 005-050919	OUTLET 005	05/09/2019	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0519-OUTLET 005-051619	OUTLET 005	05/16/2019	PFOA	PFOA	0.37	370	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0519-OUTLET 005-051619	OUTLET 005	05/16/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0519-OUTLET 005-052319	OUTLET 005	05/23/2019	PFOA	PFOA	0.71	710	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0519-OUTLET 005-052319	OUTLET 005	05/23/2019	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y	B		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0519-OUTLET 005-053019	OUTLET 005	05/30/2019	PFOA	PFOA	0.47	470	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0519-OUTLET 005-053019	OUTLET 005	05/30/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			LIQUID	FS	Other liquid	39.27052689

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	PFOS	PFOS	0.0043	4.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluoroundecanoic Acid	PFUnA	0.007	7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluorododecanoic Acid	PFDoA	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluorohexanoic Acid	PFHxA	0.018	18	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0049	4.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluorotetradecanoic Acid	PFTeA	0.0024	2.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluorotridecanoic Acid	PFTriA	0.011	11	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluorodecanoic Acid	PFDA	0.0076	7.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q19-OUTLET 005-A	OUTLET 005	09/12/2019	Perfluorononanoic Acid	PFNA	0.0098	9.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0919-OUTLET 005-091919	OUTLET 005	09/19/2019	PFOA	PFOA	0.86	860	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0919-OUTLET 005-091919	OUTLET 005	09/19/2019	Hfpo Dimer Acid	HFPO-DA	19.0	19000	Y		J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0919-OUTLET 005-092519	OUTLET 005	09/25/2019	PFOA	PFOA	1.1	1100	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0919-OUTLET 005-092519	OUTLET 005	09/25/2019	Hfpo Dimer Acid	HFPO-DA	4.1	4100	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0919-OUTLET 005-100319	OUTLET 005	10/03/2019	PFOA	PFOA	0.95	950	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0919-OUTLET 005-100319	OUTLET 005	10/03/2019	Hfpo Dimer Acid	HFPO-DA	8.5	8500	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1019-OUTLET 005	OUTLET 005	10/10/2019	PFOA	PFOA	0.86	860	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1019-OUTLET 005	OUTLET 005	10/10/2019	Hfpo Dimer Acid	HFPO-DA	4.4	4400	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1019-OUTLET 005-101719	OUTLET 005	10/17/2019	PFOA	PFOA	0.46	460	Y	F1		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1019-OUTLET 005-101719	OUTLET 005	10/17/2019	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1019-OUTLET 005-102419	OUTLET 005	10/24/2019	PFOA	PFOA	0.29	290	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1019-OUTLET 005-102419	OUTLET 005	10/24/2019	Hfpo Dimer Acid	HFPO-DA	0.72	720	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1019-OUTLET 005-103119	OUTLET 005	10/31/2019	PFOA	PFOA	0.32	320	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1019-OUTLET 005-103119	OUTLET 005	10/31/2019	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1119-OUTLET 005	OUTLET 005	11/07/2019	PFOA	PFOA	0.24	240	Y	*,F1	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1119-OUTLET 005	OUTLET 005	11/07/2019	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1119-OUTLET 005-111419	OUTLET 005	11/14/2019	PFOA	PFOA	0.29	290	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1119-OUTLET 005-111419	OUTLET 005	11/14/2019	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1119-OUTLET 005-112119	OUTLET 005	11/21/2019	PFOA	PFOA	0.27	270	Y	F1	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1119-OUTLET 005-112119	OUTLET 005	11/21/2019	Hfpo Dimer Acid	HFPO-DA	28	28000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1119-OUTLET 005-112619	OUTLET 005	11/26/2019	PFOA	PFOA	0.26	260	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1119-OUTLET 005-112619	OUTLET 005	11/26/2019	Hfpo Dimer Acid	HFPO-DA	17	17000	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1219-OUTLET 005-120519	OUTLET 005	12/05/2019	PFOA	PFOA	0.32	320	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1219-OUTLET 005-120519	OUTLET 005	12/05/2019	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1219-OUTLET 005-121219	OUTLET 005	12/12/2019	PFOA	PFOA	0.28	280	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1219-OUTLET 005-121219	OUTLET 005	12/12/2019	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1219-OUTLET 005-121719	OUTLET 005	12/17/2019	PFOA	PFOA	0.41	410	Y		J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1219-OUTLET 005-121719	OUTLET 005	12/17/2019	Hfpo Dimer Acid	HFPO-DA	8.1	8100	Y	F3		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1219-OUTLET 005-122719	OUTLET 005	12/27/2019	PFOA	PFOA	0.20	200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1219-OUTLET 005-122719	OUTLET 005	12/27/2019	Hfpo Dimer Acid	HFPO-DA	0.64	640	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-010320	OUTLET 005	01/03/2020	PFOA	PFOA	0.31	310	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-010320	OUTLET 005	01/03/2020	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-010920	OUTLET 005	01/09/2020	PFOA	PFOA	0.23	230	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-010920	OUTLET 005	01/09/2020	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-011620	OUTLET 005	01/16/2020	PFOA	PFOA	0.21	210	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-011620	OUTLET 005	01/16/2020	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-012320	OUTLET 005	01/23/2020	PFOA	PFOA	0.18	180	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-012320	OUTLET 005	01/23/2020	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-013020	OUTLET 005	01/30/2020	PFOA	PFOA	0.18	180	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0120-OUTLET 005-013020	OUTLET 005	01/30/2020	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-020620	OUTLET 005	02/06/2020	PFOA	PFOA	0.25	250	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-020620	OUTLET 005	02/06/2020	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005	OUTLET 005	02/06/2020	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005	OUTLET 005	02/06/2020	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-021320	OUTLET 005	02/13/2020	PFOA	PFOA	0.29	290	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-021320	OUTLET 005	02/13/2020	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-022020	OUTLET 005	02/20/2020	PFOA	PFOA	0.22	220	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-022020	OUTLET 005	02/20/2020	Hfpo Dimer Acid	HFPO-DA	3.4	3400	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-022720	OUTLET 005	02/27/2020	PFOA	PFOA	0.26	260	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-022720	OUTLET 005	02/27/2020	Hfpo Dimer Acid	HFPO-DA	13	13000	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0320-OUTLET 005-030520	OUTLET 005	03/05/2020	PFOA	PFOA	0.26	260	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0320-OUTLET 005-030520	OUTLET 005	03/05/2020	Hfpo Dimer Acid	HFPO-DA	7.5	7500	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	PFOS	PFOS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluoroundecanoic Acid	PFUnA	0.01	10	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluorododecanoic Acid	PFDoA	0.004	4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluorohexanoic Acid	PFHxA	0.013	13	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0035	3.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluorotetradecanoic Acid	PFTeA	0.0057	5.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluorotridecanoic Acid	PFTriA	0.032	32	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluorodecanoic Acid	PFDA	0.006	6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluoroheptanoic Acid	PFHpA	0.013	13	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	Perfluorononanoic Acid	PFNA	0.0081	8.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q20-OUTLET 005-A	OUTLET 005	03/05/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0320-OUTLET 005-031220	OUTLET 005	03/12/2020	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0320-OUTLET 005-031220	OUTLET 005	03/12/2020	Hfpo Dimer Acid	HFPO-DA	2.7	2700	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-031920	OUTLET 005	03/19/2020	PFOA	PFOA	0.34	340	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0220-OUTLET 005-031920	OUTLET 005	03/19/2020	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0320-OUTLET 005-032620	OUTLET 005	03/26/2020	PFOA	PFOA	0.27	270	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0320-OUTLET 005-032620	OUTLET 005	03/26/2020	Hfpo Dimer Acid	HFPO-DA	5.8	5800	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420 OUTLET 005-040220	OUTLET 005	04/02/2020	PFOA	PFOA	0.23	230	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420 OUTLET 005-040220	OUTLET 005	04/02/2020	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420-OUTLET 005-040920	OUTLET 005	04/09/2020	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420-OUTLET 005-040920	OUTLET 005	04/09/2020	Hfpo Dimer Acid	HFPO-DA	4.0	4000	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420-OUTLET 005-041620	OUTLET 005	04/16/2020	PFOA	PFOA	0.17	170	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420-OUTLET 005-041620	OUTLET 005	04/16/2020	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420-OUTLET 005-042320	OUTLET 005	04/23/2020	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420-OUTLET 005-042320	OUTLET 005	04/23/2020	Hfpo Dimer Acid	HFPO-DA	0.80	800	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420-OUTLET 005-043020	OUTLET 005	04/30/2020	PFOA	PFOA	0.26	260	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0420-OUTLET 005-043020	OUTLET 005	04/30/2020	Hfpo Dimer Acid	HFPO-DA	0.86	860	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0520-OUTLET 005-050720	OUTLET 005	05/07/2020	PFOA	PFOA	0.20	200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0520-OUTLET 005-050720	OUTLET 005	05/07/2020	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0520-OUTLET 005-051420	OUTLET 005	05/14/2020	PFOA	PFOA	0.22	220	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0520-OUTLET 005-051420	OUTLET 005	05/14/2020	Hfpo Dimer Acid	HFPO-DA	5.7	5700	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0520-OUTLET 005-052120	OUTLET 005	05/21/2020	PFOA	PFOA	0.14	140	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0520-OUTLET 005-052120	OUTLET 005	05/21/2020	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0520-OUTLET 005-052820	OUTLET 005	05/28/2020	PFOA	PFOA	0.074	74	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0520-OUTLET 005-052820	OUTLET 005	05/28/2020	Hfpo Dimer Acid	HFPO-DA	0.46	460	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	PFOS	PFOS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluoroundecanoic Acid	PFUnA	0.0048	4.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluorohexanoic Acid	PFHxA	0.013	13	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluorotridecanoic Acid	PFTriA	0.0042	4.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluorododecanoic Acid	PFDoA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluorodecanoic Acid	PFDA	0.0032	3.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluoroheptanoic Acid	PFHpA	0.0044	4.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q20-OUTLET 005-A	OUTLET 005	05/28/2020	Perfluorononanoic Acid	PFNA	0.0035	3.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0620-OUTLET 005-060420	OUTLET 005	06/04/2020	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0620-OUTLET 005-060420	OUTLET 005	06/04/2020	Hfpo Dimer Acid	HFPO-DA	0.54	540	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0620-OUTLET 005-061120	OUTLET 005	06/11/2020	PFOA	PFOA	0.22	220	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0620-OUTLET 005-061120	OUTLET 005	06/11/2020	Hfpo Dimer Acid	HFPO-DA	0.79	790	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0620-OUTLET 005-061820	OUTLET 005	06/18/2020	PFOA	PFOA	0.19	190	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0620-OUTLET 005-061820	OUTLET 005	06/18/2020	Hfpo Dimer Acid	HFPO-DA	0.24	240	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0620-OUTLET 005-062520	OUTLET 005	06/25/2020	PFOA	PFOA	0.22	220	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0620-OUTLET 005-062520	OUTLET 005	06/25/2020	Hfpo Dimer Acid	HFPO-DA	0.62	620	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-070220	OUTLET 005	07/02/2020	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-070220	OUTLET 005	07/02/2020	Hfpo Dimer Acid	HFPO-DA	0.40	400	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-070920	OUTLET 005	07/09/2020	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-070920	OUTLET 005	07/09/2020	Hfpo Dimer Acid	HFPO-DA	0.35	350	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-071620	OUTLET 005	07/16/2020	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-071620	OUTLET 005	07/16/2020	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-072320	OUTLET 005	07/23/2020	PFOA	PFOA	0.19	190	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-072320	OUTLET 005	07/23/2020	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-073020	OUTLET 005	07/30/2020	PFOA	PFOA	0.16	160	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0720-OUTLET 005-073020	OUTLET 005	07/30/2020	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0820-OUTLET 005-080620	OUTLET 005	08/06/2020	PFOA	PFOA	0.16	160	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0820-OUTLET 005-080620	OUTLET 005	08/06/2020	Hfpo Dimer Acid	HFPO-DA	0.56	560	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0820-OUTLET 005-081320	OUTLET 005	08/13/2020	PFOA	PFOA	0.13	130	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0820-OUTLET 005-081320	OUTLET 005	08/13/2020	Hfpo Dimer Acid	HFPO-DA	4.1	4100	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0028	2.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	PFOS	PFOS	0.0036	3.6	Y		B	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	Perfluoroundecanoic Acid	PFUnA	0.0063	6.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	Perfluorohexanoic Acid	PFHxA	0.012	12	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0024	2.4	Y		B	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.0060	6	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	Perfluorotridecanoic Acid	PFTriA	0.030	30	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q20-OUTLET 005-A	OUTLET 005	08/13/2020	Perfluorododecanoic Acid	PFDoA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27052689

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q20-OUTLET 005-A	OUTLET 005	11/19/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW4Q20-OUTLET 005-A	OUTLET 005	11/19/2020	Perfluorodecanoic Acid	PFDA	0.0020	2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW4Q20-OUTLET 005-A	OUTLET 005	11/19/2020	Perfluoroheptanoic Acid	PFHpA	0.0077	7.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW4Q20-OUTLET 005-A	OUTLET 005	11/19/2020	Perfluorononanoic Acid	PFNA	0.0020	2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW4Q20-OUTLET 005-A	OUTLET 005	11/19/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW4Q20-OUTLET 005-A	OUTLET 005	11/19/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1120-OUTLET 005-112420	OUTLET 005	11/24/2020	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1120-OUTLET 005-112420	OUTLET 005	11/24/2020	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-120320	OUTLET 005	12/03/2020	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-120320	OUTLET 005	12/03/2020	Hfpo Dimer Acid	HFPO-DA	4.6	4600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-121020	OUTLET 005	12/10/2020	PFOA	PFOA	0.32	320	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-121020	OUTLET 005	12/10/2020	Hfpo Dimer Acid	HFPO-DA	4.0	4000	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-121720	OUTLET 005	12/17/2020	PFOA	PFOA	0.28	280	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-121720	OUTLET 005	12/17/2020	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-122220	OUTLET 005	12/22/2020	PFOA	PFOA	0.33	330	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-122220	OUTLET 005	12/22/2020	Hfpo Dimer Acid	HFPO-DA	9.1	9100	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-122920	OUTLET 005	12/29/2020	PFOA	PFOA	0.41	410	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1220-OUTLET 005-122920	OUTLET 005	12/29/2020	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0121-OUTLET 005-010721	OUTLET 005	01/07/2021	PFOA	PFOA	0.31	310	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0121-OUTLET 005-010721	OUTLET 005	01/07/2021	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0121-OUTLET 005-011421	OUTLET 005	01/14/2021	PFOA	PFOA	0.22	220	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0121-OUTLET 005-011421	OUTLET 005	01/14/2021	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0121-OUTLET 005-012121	OUTLET 005	01/21/2021	PFOA	PFOA	0.22	220	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0121-OUTLET 005-012121	OUTLET 005	01/21/2021	Hfpo Dimer Acid	HFPO-DA	9.1	9100	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0063	6.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	PFOS	PFOS	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluoroundecanoic Acid	PFUnA	0.0069	6.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluorobutanoic Acid	PFBA	0.0078	7.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Hfpo Dimer Acid	HFPO-DA	9.6	9600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluorododecanoic Acid	PFDoA	0.0025	2.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluoropentanoic Acid	PFPA	0.023	23	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluorohexanoic Acid	PFHxA	0.016	16	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0058	5.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluorotetradecanoic Acid	PFTeA	0.0074	7.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluorotridecanoic Acid	PFTriA	0.029	29	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluorodecanoic Acid	PFDA	0.0044	4.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluoroheptanoic Acid	PFHpA	0.012	12	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q21-OUTLET 005-A-012121	OUTLET 005	01/21/2021	Perfluorononanoic Acid	PFNA	0.0058	5.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0121-OUTLET 005-012821	OUTLET 005	01/28/2021	PFOA	PFOA	0.28	280	Y			Liquid	FS	Drinking Water	39.27052689	-81.6768799
SW0121-OUTLET 005-012821	OUTLET 005	01/28/2021	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Drinking Water	39.27052689	-81.6768799
SW0221-OUTLET 005-020421	OUTLET 005	02/04/2021	PFOA	PFOA	0.38	380	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0221-OUTLET 005-020421	OUTLET 005	02/04/2021	Hfpo Dimer Acid	HFPO-DA	12	12000	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0221-OUTLET 005-021121	OUTLET 005	02/11/2021	PFOA	PFOA	0.23	230	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0221-OUTLET 005-021121	OUTLET 005	02/11/2021	Hfpo Dimer Acid	HFPO-DA	7.6	7600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0221-OUTLET 005-021821	OUTLET 005	02/18/2021	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0221-OUTLET 005-021821	OUTLET 005	02/18/2021	Hfpo Dimer Acid	HFPO-DA	6.1	6100	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0221-OUTLET 005-022521	OUTLET 005	02/25/2021	PFOA	PFOA	0.29	290	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0221-OUTLET 005-022521	OUTLET 005	02/25/2021	Hfpo Dimer Acid	HFPO-DA	15	15000	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0321-OUTLET 005-030421	OUTLET 005	03/04/2021	PFOA	PFOA	0.28	280	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0321-OUTLET 005-030421	OUTLET 005	03/04/2021	Hfpo Dimer Acid	HFPO-DA	14	14000	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0321-OUTLET 005-031121	OUTLET 005	03/11/2021	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0321-OUTLET 005-031121	OUTLET 005	03/11/2021	Hfpo Dimer Acid	HFPO-DA	15	15000	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0321-OUTLET 005-031821	OUTLET 005	03/18/2021	PFOA	PFOA	0.28	280	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0321-OUTLET 005-031821	OUTLET 005	03/18/2021	Hfpo Dimer Acid	HFPO-DA	5.5	5500	Y	F3,*1	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0321-OUTLET 005-032521	OUTLET 005	03/25/2021	PFOA	PFOA	0.28	280	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0321-OUTLET 005-032521	OUTLET 005	03/25/2021	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-040121	OUTLET 005	04/01/2021	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-040121	OUTLET 005	04/01/2021	Hfpo Dimer Acid	HFPO-DA	0.97	970	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-040821	OUTLET 005	04/08/2021	PFOA	PFOA	0.22	220	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-040821	OUTLET 005	04/08/2021	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	PFOA	PFOA	0.23	230	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	PFOS	PFOS	0.0022	2.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluoroundecanoic Acid	PFUnA	0.0092	9.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluorobutanoic Acid	PFBA	0.013	13	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluoropentanoic Acid	PFPA	0.017	17	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluorohexanoic Acid	PFHxA	0.022	22	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0041	4.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluorotetradecanoic Acid	PFTeA	0.0045	4.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluorotridecanoic Acid	PFTriA	0.023	23	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluorododecanoic Acid	PFDoA	0.0026	2.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluorodecanoic Acid	PFDA	0.0066	6.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluoroheptanoic Acid	PFHpA	0.023	23	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q21-OUTLET 005-A	OUTLET 005	04/08/2021	Perfluorononanoic Acid	PFNA	0.015	15	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-041521	OUTLET 005	04/15/2021	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-041521	OUTLET 005	04/15/2021	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-042221	OUTLET 005	04/22/2021	PFOA	PFOA	0.26	260	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-042221	OUTLET 005	04/22/2021	Hfpo Dimer Acid	HFPO-DA	9.7	9700	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-042921	OUTLET 005	04/29/2021	PFOA	PFOA	0.26	260	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0421-OUTLET 005-042921	OUTLET 005	04/29/2021	Hfpo Dimer Acid	HFPO-DA	8.5	8500	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0521-OUTLET 005-050621	OUTLET 005	05/06/2021	PFOA	PFOA	0.65	650	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0521-OUTLET 005-050621	OUTLET 005	05/06/2021	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0521-OUTLET 005-051321	OUTLET 005	05/13/2021	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0521-OUTLET 005-051321	OUTLET 005	05/13/2021	Hfpo Dimer Acid	HFPO-DA	9.5	9500	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0521-OUTLET 005-052021	OUTLET 005	05/20/2021	PFOA	PFOA	0.30	300	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0521-OUTLET 005-052021	OUTLET 005	05/20/2021	Hfpo Dimer Acid	HFPO-DA	8.5	8500	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0521-OUTLET 005-052721	OUTLET 005	05/27/2021	PFOA	PFOA	0.29	290	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0521-OUTLET 005-052721	OUTLET 005	05/27/2021	Hfpo Dimer Acid	HFPO-DA	5.0	5000	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0621-OUTLET 005-060321	OUTLET 005	06/03/2021	PFOA	PFOA	0.13	130	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0621-OUTLET 005-060321	OUTLET 005	06/03/2021	Hfpo Dimer Acid	HFPO-DA	6.6	6600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0621-OUTLET 005-061021	OUTLET 005	06/10/2021	PFOA	PFOA	0.19	190	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0621-OUTLET 005-061021	OUTLET 005	06/10/2021	Hfpo Dimer Acid	HFPO-DA	6.1	6100	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0621-OUTLET 005-061721	OUTLET 005	06/17/2021	PFOA	PFOA	0.14	140	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0621-OUTLET 005-061721	OUTLET 005	06/17/2021	Hfpo Dimer Acid	HFPO-DA	6.4	6400	Y	F3	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0621-OUTLET 005-062421	OUTLET 005	06/24/2021	PFOA	PFOA	0.20	200	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0621-OUTLET 005-062421	OUTLET 005	06/24/2021	Hfpo Dimer Acid	HFPO-DA	7.9	7900	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0721-OUTLET 005-070121	OUTLET 005	07/01/2021	PFOA	PFOA	0.34	340	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0721-OUTLET 005-070121	OUTLET 005	07/01/2021	Hfpo Dimer Acid	HFPO-DA	8.8	8800	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0721-OUTLET 005-070821	OUTLET 005	07/08/2021	PFOA	PFOA	0.27	270	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0721-OUTLET 005-070821	OUTLET 005	07/08/2021	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0043	4.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	PFOA	PFOA	0.39	390	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	PFOS	PFOS	0.0047	4.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluorobutanoic Acid	PFBA	0.019	19	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluoropentanoic Acid	PFPA	0.0070	7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluorohexanoic Acid	PFHxA	0.025	25	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0046	4.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluorotridecanoic Acid	PFTriA	0.0020	2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Hfpo Dimer Acid	HFPO-DA	0.57	570	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluorodecanoic Acid	PFDA	0.0031	3.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluoroheptanoic Acid	PFHpA	0.011	11	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q21-OUTLET 005-A-071521	OUTLET 005	07/15/2021	Perfluorononanoic Acid	PFNA	0.0036	3.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0721-OUTLET 005-072221	OUTLET 005	07/22/2021	PFOA	PFOA	0.27	270	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0721-OUTLET 005-072221	OUTLET 005	07/22/2021	Hfpo Dimer Acid	HFPO-DA	0.12	120	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0721-OUTLET 005-072921	OUTLET 005	07/29/2021	PFOA	PFOA	0.23	230	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0721-OUTLET 005-072921	OUTLET 005	07/29/2021	Hfpo Dimer Acid	HFPO-DA	0.21	210	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0821-OUTLET 005-080521	OUTLET 005	08/05/2021	PFOA	PFOA	0.19	190	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0821-OUTLET 005-080521	OUTLET 005	08/05/2021	Hfpo Dimer Acid	HFPO-DA	9.1	9100	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0821-OUTLET 005-081221	OUTLET 005	08/12/2021	PFOA	PFOA	0.20	200	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0821-OUTLET 005-081221	OUTLET 005	08/12/2021	Hfpo Dimer Acid	HFPO-DA	3.8	3800	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0821-OUTLET 005-081921	OUTLET 005	08/19/2021	PFOA	PFOA	0.17	170	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0821-OUTLET 005-081921	OUTLET 005	08/19/2021	Hfpo Dimer Acid	HFPO-DA	7.6	7600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0821-OUTLET 005-082621	OUTLET 005	08/26/2021	PFOA	PFOA	0.21	210	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0821-OUTLET 005-082621	OUTLET 005	08/26/2021	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-090221	OUTLET 005	09/02/2021	PFOA	PFOA	0.20	200	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-090221	OUTLET 005	09/02/2021	Hfpo Dimer Acid	HFPO-DA	4.6	4600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-090921	OUTLET 005	09/09/2021	PFOA	PFOA	0.16	160	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-090921	OUTLET 005	09/09/2021	Hfpo Dimer Acid	HFPO-DA	0.64	640	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-091621	OUTLET 005	09/16/2021	PFOA	PFOA	0.18	180	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-091621	OUTLET 005	09/16/2021	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-092321	OUTLET 005	09/23/2021	PFOA	PFOA	0.45	450	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-092321	OUTLET 005	09/23/2021	Hfpo Dimer Acid	HFPO-DA	29	29000	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-093021	OUTLET 005	09/30/2021	PFOA	PFOA	0.56	560	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0921-OUTLET 005-093021	OUTLET 005	09/30/2021	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y	

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	PFOS	PFOS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluoroundecanoic Acid	PFUnA	0.0088	8.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluorobutanoic Acid	PFBA	0.074	74	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Hfpo Dimer Acid	HFPO-DA	0.55	550	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluorododecanoic Acid	PFDoA	0.0037	3.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluoropentanoic Acid	PFPA	0.025	25	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluorohexanoic Acid	PFHxA	0.015	15	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0024	2.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluorotetradecanoic Acid	PFTeA	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluorotridecanoic Acid	PFTriA	0.012	12	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluorodecanoic Acid	PFDA	0.0056	5.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluoroheptanoic Acid	PFHpA	0.021	21	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1Q22-OUTLET 005-A-011322	OUTLET 005	01/13/2022	Perfluorononanoic Acid	PFNA	0.014	14	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW122-OUTLET 005-012022	OUTLET 005	01/20/2022	PFOA	PFOA	0.16	160	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW122-OUTLET 005-012022	OUTLET 005	01/20/2022	Hfpo Dimer Acid	HFPO-DA	0.78	780	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW122-OUTLET 005-012722	OUTLET 005	01/27/2022	PFOA	PFOA	0.13	130	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW122-OUTLET 005-012722	OUTLET 005	01/27/2022	Hfpo Dimer Acid	HFPO-DA	0.34	340	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW222-OUTLET 005-020322	OUTLET 005	02/03/2022	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW222-OUTLET 005-020322	OUTLET 005	02/03/2022	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW222-OUTLET 005-021022	OUTLET 005	02/10/2022	PFOA	PFOA	0.13	130	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW222-OUTLET 005-021022	OUTLET 005	02/10/2022	Hfpo Dimer Acid	HFPO-DA	0.30	300	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	PFOS	PFOS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0062	6.2	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluorobutanoic Acid	PFBA	0.13	130	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	PFOA	PFOA	0.074	74	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Hfpo Dimer Acid	HFPO-DA	0.90	900	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluorododecanoic Acid	PFDoA	0.0024	2.4	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluoropentanoic Acid	PFPA	0.013	13	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluorohexanoic Acid	PFHxA	0.010	10	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.010	10	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluorotridecanoic Acid	PFTriA	0.054	54	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluorodecanoic Acid	PFDA	0.0020	2	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0088	8.8	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0222-OUTLET 005-A	OUTLET 005	02/16/2022	Perfluorononanoic Acid	PFNA	0.0046	4.6	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
SW222-OUTLET 005-021722	OUTLET 005	02/17/2022	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW222-OUTLET 005-021722	OUTLET 005	02/17/2022	Hfpo Dimer Acid	HFPO-DA	0.71	710	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW222-OUTLET 005-022422	OUTLET 005	02/24/2022	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW222-OUTLET 005-022422	OUTLET 005	02/24/2022	Hfpo Dimer Acid	HFPO-DA	0.13	130	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW322-OUTLET 005-030322	OUTLET 005	03/03/2022	PFOA	PFOA	0.13	130	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW322-OUTLET 005-030322	OUTLET 005	03/03/2022	Hfpo Dimer Acid	HFPO-DA	0.24	240	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW322-OUTLET 005-031022	OUTLET 005	03/10/2022	PFOA	PFOA	0.12	120	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW322-OUTLET 005-031022	OUTLET 005	03/10/2022	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	PFOS	PFOS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluoroundecanoic Acid	PFUnA	0.024	24	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluorobutanoic Acid	PFBA	0.080	80	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	PFOA	PFOA	0.12	120	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Hfpo Dimer Acid	HFPO-DA	0.29	290	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluorododecanoic Acid	PFDoA	0.0070	7	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluoropentanoic Acid	PFPA	0.14	140	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluorohexanoic Acid	PFHxA	0.024	24	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0039	3.9	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluorotridecanoic Acid	PFTriA	0.014	14	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluorodecanoic Acid	PFDA	0.012	12	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluoroheptanoic Acid	PFHpA	0.031	31	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A	OUTLET 005	03/16/2022	Perfluorononanoic Acid	PFNA	0.030	30	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	PFOA	PFOA	0.12	120	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluoroundecanoic Acid	PFUnA	0.024	24	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluorobutanoic Acid	PFBA	0.080	80	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Hfpo Dimer Acid	HFPO-DA	0.28	280	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluorododecanoic Acid	PFDoA	0.0075	7.5	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluoropentanoic Acid	PFPA	0.14	140	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluorohexanoic Acid	PFHxA	0.027	27	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0038	3.8	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluorotridecanoic Acid	PFTriA	0.014	14	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluorodecanoic Acid	PFDA	0.012	12	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluoroheptanoic Acid	PFHpA	0.032	32	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0322-OUTLET 005-A-D	OUTLET 005	03/16/2022	Perfluorononanoic Acid	PFNA	0.028	28	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
SW322-OUTLET 005-031722	OUTLET 005	03/17/2022	PFOA	PFOA	0.093	93	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW322-OUTLET 005-031722	OUTLET 005	03/17/2022	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW322-OUTLET 005-032422	OUTLET 005	03/24/2022	PFOA	PFOA	0.12	120	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW322-OUTLET 005-032422	OUTLET 005	03/24/2022	Hfpo Dimer Acid	HFPO-DA	0.77	770	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW322-OUTLET 005-033122	OUTLET 005	03/31/2022	PFOA	PFOA	0.12	120	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW322-OUTLET 005-033122	OUTLET 005	03/31/2022	Hfpo Dimer Acid	HFPO-DA	0.60	600	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW422-OUTLET 005-040722	OUTLET 005	04/07/2022	PFOA	PFOA	0.18	180	Y	cn		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW422-OUTLET 005-040722	OUTLET 005	04/07/2022	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y	B,*+,cn	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	PFOA	PFOA	0.13	130	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	PFOS	PFOS	0.0019	1.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluoroundecanoic Acid	PFUnA	0.0063	6.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluorobutanoic Acid	PFBA	0.0099	9.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluoropentanoic Acid	PFPA	0.033	33	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluorohexanoic Acid	PFHxA	0.016	16	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluorotetradecanoic Acid	PFTeA	0.0023	2.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluorotridecanoic Acid	PFTriA	0.012	12	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluorododecanoic Acid	PFDoA	0.0021	2.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluorodecanoic Acid	PFDA	0.0032	3.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluoroheptanoic Acid	PFHpA	0.017	17	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW2Q22-OUTLET 005-A-041422	OUTLET 005	04/14/2022	Perfluorononanoic Acid	PFNA	0.0077	7.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW422-OUTLET 005-042122	OUTLET 005	04/21/2022	PFOA	PFOA	0.14	140	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW422-OUTLET 005-042122	OUTLET 005	04/21/2022	Hfpo Dimer Acid	HFPO-DA	0.77	770	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW422-OUTLET 005-042822	OUTLET 005	04/28/2022	PFOA	PFOA	0.12	120	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW422-OUTLET 005-042822	OUTLET 005	04/28/2022	Hfpo Dimer Acid	HFPO-DA	0.98	980	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW522-OUTLET 005-050522	OUTLET 005	05/05/2022	PFOA	PFOA	0.076	76	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW522-OUTLET 005-050522	OUTLET 005	05/05/2022	Hfpo Dimer Acid	HFPO-DA	0.42	420	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	DONA	DONA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	PFOS	PFOS	0.0022	2.2	Y	cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluorobutanoic Acid	PFBA	0.012	12	Y	cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	PFOA	PFOA	0.092	92	Y	cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Hfpo Dimer Acid	HFPO-DA	0.069	69	Y	cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluoropentanoic Acid	PFPA	0.0044	4.4	Y	cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluorohexanoic Acid	PFHxA	0.0087	8.7	Y	cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0025	2.5	Y	cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U,cn	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	Y	cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluoroheptanoic Acid	PFHpA	0.0040	4	Y	cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A	OUTLET 005	05/11/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U,cn		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A-D	OUTLET 005	05/11/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV0422-OUTLET 005-A-D	OUTLET 005	05/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
OHRV-0622-OUTLET 005-A-D	Outlet 005	06/01/2022	Perfluorohexanoic Acid	PFHxA	0.014	14	Y			LIQUID	DUP	Other liquid	39.27052689	-81.6768799
OHRV-0622-OUTLET 005-A-D	Outlet 005	06/01/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0031	3.1	Y			LIQUID	DUP	Other liquid	39.27052689	-81.6768799
OHRV-0622-OUTLET 005-A-D	Outlet 005	06/01/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	DUP	Other liquid	39.27052689	-81.6768799
OHRV-0622-OUTLET 005-A-D	Outlet 005	06/01/2022	Perfluorotridecanoic Acid	PFTriA	0.0097	9.7	Y		J	LIQUID	DUP	Other liquid	39.27052689	-81.6768799
OHRV-0622-OUTLET 005-A-D	Outlet 005	06/01/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	DUP	Other liquid	39.27052689	-81.6768799
OHRV-0622-OUTLET 005-A-D	Outlet 005	06/01/2022	Perfluorodecanoic Acid	PFDA	0.0029	2.9	Y			LIQUID	DUP	Other liquid	39.27052689	-81.6768799
OHRV-0622-OUTLET 005-A-D	Outlet 005	06/01/2022	Perfluoroheptanoic Acid	PFHpA	0.0071	7.1	Y			LIQUID	DUP	Other liquid	39.27052689	-81.6768799
OHRV-0622-OUTLET 005-A-D	Outlet 005	06/01/2022	Perfluorononanoic Acid	PFNA	0.0036	3.6	Y			LIQUID	DUP	Other liquid	39.27052689	-81.6768799
SW622-OUTLET 005-060222	OUTLET 005	06/02/2022	PFOA	PFOA	0.12	120	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW622-OUTLET 005-060222	OUTLET 005	06/02/2022	Hfpo Dimer Acid	HFPO-DA	0.78	780	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW622-OUTLET 005-060922	OUTLET 005	06/09/2022	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW622-OUTLET 005-060922	OUTLET 005	06/09/2022	Hfpo Dimer Acid	HFPO-DA	0.37	370	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW622-OUTLET 005-061622	OUTLET 005	06/16/2022	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW622-OUTLET 005-061622	OUTLET 005	06/16/2022	Hfpo Dimer Acid	HFPO-DA	0.71	710	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW622-OUTLET 005-062322	OUTLET 005	06/23/2022	PFOA	PFOA	0.087	87	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW622-OUTLET 005-062322	OUTLET 005	06/23/2022	Hfpo Dimer Acid	HFPO-DA	0.52	520	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0030	3	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	PFOS	PFOS	0.0028	2.8	Y	I	J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluoroundecanoic Acid	PFUnA	0.0055	5.5	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluorobutanoic Acid	PFBA	0.042	42	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	PFOA	PFOA	0.11	110	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Hfpo Dimer Acid	HFPO-DA	0.59	590	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluoropentanoic Acid	PFPA	0.20	200	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluorohexanoic Acid	PFHxA	0.014	14	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluorotridecanoic Acid	PFTriA	0.013	13	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluorodecanoic Acid	PFDA	0.0027	2.7	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluoroheptanoic Acid	PFHpA	0.012	12	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A	Outlet 005	06/30/2022	Perfluorononanoic Acid	PFNA	0.0048	4.8	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0029	2.9	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	PFOA	PFOA	0.11	110	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	PFOS	PFOS	0.0063	6.3	Y	I	J	LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluoroundecanoic Acid	PFUnA	0.0054	5.4	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluorobutanoic Acid	PFBA	0.043	43	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Hfpo Dimer Acid	HFPO-DA	0.61	610	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluorododecanoic Acid	PFDoA	0.0020	2	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluoropentanoic Acid	PFPA	0.20	200	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluorohexanoic Acid	PFHxA	0.014	14	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluorotetradecanoic Acid	PFTeA	0.0042	4.2	Y		J	LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluorotridecanoic Acid	PFTriA	0.014	14	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluorodecanoic Acid	PFDA	0.0025	2.5	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluoroheptanoic Acid	PFHpA	0.012	12	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-063022-OUTLET 005-A-D	Outlet 005	06/30/2022	Perfluorononanoic Acid	PFNA	0.0050	5	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
SW622-OUTLET 005-063022	OUTLET 005	06/30/2022	PFOA	PFOA	0.081	81	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW622-OUTLET 005-063022	OUTLET 005	06/30/2022	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0023	2.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	PFOA	PFOA	0.087	87	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	PFOS	PFOS	0.0026	2.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluoroundecanoic Acid	PFUnA	0.0041	4.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluorobutanoic Acid	PFBA	0.046	46	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluoropentanoic Acid	PFPA	0.049	49	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluorohexanoic Acid	PFHxA	0.014	14	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluorotridecanoic Acid	PFTriA	0.0041	4.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Hfpo Dimer Acid	HFPO-DA	0.39	390	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluorodecanoic Acid	PFDA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluoroheptanoic Acid	PFHpA	0.013	13	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q22-OUTLET 005-A-070722	OUTLET 005	07/07/2022	Perfluorononanoic Acid	PFNA	0.0079	7.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW722-OUTLET 005-071422	OUTLET 005	07/14/2022	PFOA	PFOA	0.077	77	Y	F1	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW722-OUTLET 005-071422	OUTLET 005	07/14/2022	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW722-OUTLET 005-072122	OUTLET 005	07/21/2022	PFOA	PFOA	0.12	120	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW722-OUTLET 005-072122	OUTLET 005	07/21/2022	Hfpo Dimer Acid	HFPO-DA	0.44	440	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW722-OUTLET 005-072822	OUTLET 005	07/28/2022	PFOA	PFOA	0.13	130	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW722-OUTLET 005-072822	OUTLET 005	07/28/2022	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW822-OUTLET 005-080422	OUTLET 005	08/04/2022	PFOA	PFOA	0.096	96	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
SW822-OUTLET 005-080422	OUTLET 005	08/04/2022	Hfpo Dimer Acid	HFPO-DA	0.38	380	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
SW822-OUTLET 005-081122	OUTLET 005	08/11/2022	PFOA	PFOA	0.093	93	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW822-OUTLET 005-081122	OUTLET 005	08/11/2022	Hfpo Dimer Acid	HFPO-DA	0.41	410	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0038	3.8	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	PFOS	PFOS	0.0030	3	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluoroundecanoic Acid	PFUnA	0.0055	5.5	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluorobutanoic Acid	PFBA	0.0074	7.4	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	PFOA	PFOA	0.089	89	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluoropentanoic Acid	PFPA	0.057	57	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluorohexanoic Acid	PFHxA	0.014	14	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0021	2.1	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.0021	2.1	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluorotridecanoic Acid	PFTriA	0.013	13	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluorodecanoic Acid	PFDA	0.0031	3.1	Y			LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluoroheptanoic Acid	PFHpA	0.0067	6.7	Y		J	LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A	outlet 005	08/17/2022	Perfluorononanoic Acid	PFNA	0.0034	3.4	Y		J	LIQUID	FS	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0039	3.9	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	PFOA	PFOA	0.12	120	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	PFOS	PFOS	0.0030	3	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluoroundecanoic Acid	PFUnA	0.0066	6.6	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluorobutanoic Acid	PFBA	0.0090	9	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Hfpo Dimer Acid	HFPO-DA	0.44	440	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluorododecanoic Acid	PFDoA	0.0022	2.2	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluoropentanoic Acid	PFPA	0.057	57	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluorohexanoic Acid	PFHxA	0.015	15	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0027	2.7	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.0027	2.7	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluorotridecanoic Acid	PFTriA	0.013	13	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluorodecanoic Acid	PFDA	0.0044	4.4	Y			LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluoroheptanoic Acid	PFHpA	0.014	14	Y		J	LIQUID	DUP	other liquid	39.27052689	-81.6768799
OHRV-0822-OUTLET 005-A-D	outlet 005	08/17/2022	Perfluorononanoic Acid	PFNA	0.0089	8.9	Y		J	LIQUID	DUP	other liquid	39.27052689	-81.6768799
SW822-OUTLET 005-081822	OUTLET 005	08/18/2022	PFOA	PFOA	0.097	97	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW822-OUTLET 005-081822	OUTLET 005	08/18/2022	Hfpo Dimer Acid	HFPO-DA	0.40	400	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW822-OUTLET 005-082522	OUTLET 005	08/25/2022	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW822-OUTLET 005-082522	OUTLET 005	08/25/2022	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0922-OUTLET 005-090122	OUTLET 005	09/01/2022	PFOA	PFOA	0.087	87	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0922-OUTLET 005-090122	OUTLET 005	09/01/2022	Hfpo Dimer Acid	HFPO-DA	0.29	290	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0922-OUTLET 005-090822	OUTLET 005	09/08/2022	PFOA	PFOA	0.061	61	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0922-OUTLET 005-090822	OUTLET 005	09/08/2022	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0922-OUTLET 005-091522	OUTLET 005	09/15/2022	PFOA	PFOA	0.14	140	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0922-OUTLET 005-091522	OUTLET 005	09/15/2022	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0922-OUTLET 005-092222	OUTLET 005	09/22/2022	PFOA	PFOA	0.30	300	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0922-OUTLET 005-092222	OUTLET 005	09/22/2022	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
OHRV-0922-OUTLET 005-A	OUTLET 005	09/28/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0041	4.1	Y		J	LIQUID	FS	Surface Water	39.27052689	-81.6768799
OHRV-0922-OUTLET 005-A	OUTLET 005	09/28/2022	DONA	DONA	0.0016	1.6	N	U	UJ	LIQUID	FS	Surface Water	39.27052689	-81.6768799
OHRV-0922-OUTLET 005-A	OUTLET 005	09/28/2022	PFOS	PFOS	0.0045	4.5	Y	I	J	LIQUID	FS	Surface Water	39.27052689	-81.6768799
OHRV-0922-OUTLET 005-A	OUTLET 005	09/28/2022	Perfluoroundecanoic Acid	PFUnA	0.0089	8.9	Y		J	LIQUID	FS	Surface Water	39.27052689	-81.6768799
OHRV-0922-OUTLET 005-A	OUTLET 005	09/28/2022	Perfluorobutanoic Acid	PFBA	0.17	170	Y		J	LIQUID	FS	Surface Water	39.27052689	-81.6768799
OHRV-0922-OUTLET 005-A	OUTLET 005	09/28/2022	PFOA	PFOA	0.23	230	Y		J	LIQUID	FS	Surface Water	39.27052689	-81.6768799
OHRV-0922-OUTLET 005-A	OUTLET 005	09/28/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U	UJ	LIQUID	FS	Surface Water	39.27052689	-81.6768799
OHRV-0922-OUTLET 005-A	OUTLET 005	09/28/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U	UJ	LIQUID	FS	Surface Water	39.27052689	-81.6768799
OHRV-0922-OUTLET 005-A	OUTLET 005	09/28/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U	UJ	LIQUID	FS	Surface Water	39.27052689	-81.6768799

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1022-OUTLET 005-102022	OUTLET 005	10/20/2022	PFOA	PFOA	0.15	150	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1022-OUTLET 005-102022	OUTLET 005	10/20/2022	Hfpo Dimer Acid	HFPO-DA	0.64	640	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1022-OUTLET 005-102422	OUTLET 005	10/24/2022	Hfpo Dimer Acid	HFPO-DA	0.38	380	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1022-OUTLET 005-102522	OUTLET 005	10/25/2022	Hfpo Dimer Acid	HFPO-DA	0.56	560	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1022-OUTLET 005-102722	OUTLET 005	10/27/2022	PFOA	PFOA	0.12	120	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1022-OUTLET 005-102722	OUTLET 005	10/27/2022	Hfpo Dimer Acid	HFPO-DA	0.40	400	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0027	2.7	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	PFOS	PFOS	0.0026	2.6	Y	I	J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluoroundecanoic Acid	PFUnA	0.0037	3.7	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluorobutanoic Acid	PFBA	0.0096	9.6	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	PFOA	PFOA	0.086	86	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Hfpo Dimer Acid	HFPO-DA	0.28	280	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluoropentanoic Acid	PFPA	0.024	24	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluorohexanoic Acid	PFHxA	0.0073	7.3	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluorotridecanoic Acid	PFTriA	0.0089	8.9	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluorodecanoic Acid	PFDA	0.0021	2.1	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluoroheptanoic Acid	PFHpA	0.0074	7.4	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A	Outlet 005	11/02/2022	Perfluorononanoic Acid	PFNA	0.0031	3.1	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0031	3.1	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	PFOA	PFOA	0.099	99	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	PFOS	PFOS	0.0030	3	Y	I	J	LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluoroundecanoic Acid	PFUnA	0.0045	4.5	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluorobutanoic Acid	PFBA	0.012	12	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluoropentanoic Acid	PFPA	0.027	27	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluorohexanoic Acid	PFHxA	0.0089	8.9	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0023	2.3	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluorotetradecanoic Acid	PFTeA	0.0031	3.1	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluorotridecanoic Acid	PFTriA	0.016	16	Y		J	LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluorodecanoic Acid	PFDA	0.0027	2.7	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluoroheptanoic Acid	PFHpA	0.0085	8.5	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
OHRV-1122-OUTLET 005-A-D	Outlet 005	11/02/2022	Perfluorononanoic Acid	PFNA	0.0041	4.1	Y			LIQUID	DUP	Other Liquid	39.27052689	-81.6768799
SW1122-OUTLET 005-110322	OUTLET 005	11/03/2022	PFOA	PFOA	0.131	131	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1122-OUTLET 005-110322	OUTLET 005	11/03/2022	Hfpo Dimer Acid	HFPO-DA	0.411	411	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1122-OUTLET 005-111022	OUTLET 005	11/10/2022	PFOA	PFOA	0.197	197	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1122-OUTLET 005-111022	OUTLET 005	11/10/2022	Hfpo Dimer Acid	HFPO-DA	0.717	717	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1122-OUTLET 005-111722	OUTLET 005	11/17/2022	PFOA	PFOA	0.211	211	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1122-OUTLET 005-111722	OUTLET 005	11/17/2022	Hfpo Dimer Acid	HFPO-DA	0.505	505	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1122-OUTLET 005-112222	OUTLET 005	11/22/2022	PFOA	PFOA	0.179	179	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1122-OUTLET 005-112222	OUTLET 005	11/22/2022	Hfpo Dimer Acid	HFPO-DA	2.48	2480	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	R-PSDA	R-PSDA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFECA B	PFECA B	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	R-PSDCA	R-PSDCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFECA-A	PFECA-A	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Hydro-PS Acid	Hydro-PS Acid	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	2-Perfluorodecylethanoic Acid	10:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	DONA	DONA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorononanesulfonic Acid	PFNS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0026	2.6	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFOS	PFOS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluoroundecanoic Acid	PFUnA	0.0095	9.5	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	R-EVE	R-EVE	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorobutanoic Acid	PFBA	0.021	21	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFECA-F	PFECA-F	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFO2HxA	PFO2HxA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFECA-G	PFECA-G	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	MTP	MTP	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFOA	PFOA	0.12	120	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFO3OA	PFO3OA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PPF Acid	PPF Acid	1.2	1200	Y	*-	J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluoropropanesulfonic Acid	PFPrS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0026	2.6	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorodecane Sulfonic Acid	PFDS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFMOAA	PFMOAA	0.016	16	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Hfpo Dimer Acid	HFPO-DA	0.87	870	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0026	2.6	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorododecanoic Acid	PFDoA	0.0026	2.6	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0026	2.6	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorohexanesulfonamide	FHXSA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	EVE Acid	EVE Acid	0.0088	8.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0026	2.6	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	NVHOS, Acid Form	NVHOS, Acid Form	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PEPA	PEPA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluoropentanoic Acid	PFPA	0.013	13	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PS Acid	PS Acid	0.0088	8.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorobutylsulphonamide	FBSA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorohexanoic Acid	PFHxA	0.0086	8.6	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0026	2.6	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorotetradecanoic Acid	PFTeA	0.0030	3	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorotridecanoic Acid	PFTriA	0.022	22	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorooctane Sulfonamide	PFOSA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PMPA	PMPA	0.015	15	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorooctadecanoic Acid	PFODA	0.0026	2.6	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Hydrolyzed PSDA	Hydrolyzed PSDA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0026	2.6	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorodecanoic Acid	PFDA	0.0035	3.5	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluoroheptanoic Acid	PFHpA	0.0071	7.1	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Perfluorononanoic Acid	PFNA	0.0041	4.1	Y		J	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFO4DA	PFO4DA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	PFO5DA	PFO5DA	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	2-Perfluorohexylethanoic Acid	6:2 FTCA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
Outfall 005-120122	OUTLET 005	12/01/2022	Hydro-EVE Acid	Hydro-EVE Acid	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.27052689	-81.6768799
SW1222-OUTLET 005-120122	OUTLET 005	12/01/2022	PFOA	PFOA	0.144	144	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1222-OUTLET 005-120122	OUTLET 005	12/01/2022	Hfpo Dimer Acid	HFPO-DA	1.22	1220	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1222-OUTLET 005-120822	OUTLET 005	12/08/2022	PFOA	PFOA	0.130	130	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1222-OUTLET 005-120822	OUTLET 005	12/08/2022	Hfpo Dimer Acid	HFPO-DA	0.514	514	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0067	6.7	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Perfluorobutanoic Acid	PFBA	0.082	82	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	PFOA	PFOA	0.11	110	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.30	300	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Perfluorododecanoic Acid	PFDoA	0.0035	3.5	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Perfluoropentanoic Acid	PFPA	2.7	2700	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Perfluorohexanoic Acid	PFHxA	0.012	12	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0034	3.4	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-1222-OUTLET 005-A	OUTLET 005	12/12/2022	Perfluorotridecanoic Acid	PFTriA	0.024	24	Y			LIQUID	FS	Other Liquid	39.27052689	-81.6768799
OHRV-

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW223-OUTLET 005-020223	OUTLET 005	02/02/2023	Hfpo Dimer Acid	HFPO-DA	1.16	1160	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00191	1.91	Y	I	J	LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	DONA	DONA	0.00706	7.06	N	U		LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	PFOS	PFOS	0.00193	1.93	Y	I	J	LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluoroundecanoic Acid	PFUnA	0.00177	1.77	N	U		LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluorobutanoic Acid	PFBA	0.0794	79.4	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	PFOA	PFOA	0.232	232	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00706	7.06	N	U		LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00177	1.77	N	U		LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00706	7.06	N	U		LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Hfpo Dimer Acid	HFPO-DA	0.819	819	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluorododecanoic Acid	PFDoA	0.00177	1.77	N	U		LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluoropentanoic Acid	PFPA	0.414	414	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluorohexanoic Acid	PFHxA	0.0222	22.2	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00691	6.91	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluorotetradecanoic Acid	PFTeA	0.00177	1.77	N	U		LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluorotridecanoic Acid	PFTriA	0.00213	2.13	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00353	3.53	N	U		LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluorodecanoic Acid	PFDA	0.00240	2.4	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluoroheptanoic Acid	PFHpA	0.0189	18.9	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A	OUTLET 005	02/06/2023	Perfluorononanoic Acid	PFNA	0.00460	4.6	Y			LIQUID	FS	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	DONA	DONA	0.00702	7.02	N	U		LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00175	1.75	N	U		LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	PFOA	PFOA	0.249	249	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00702	7.02	N	U		LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	PFOS	PFOS	0.00194	1.94	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluoroundecanoic Acid	PFUnA	0.00175	1.75	N	U		LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluorobutanoic Acid	PFBA	0.0748	74.8	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Hfpo Dimer Acid	HFPO-DA	0.795	795	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluorododecanoic Acid	PFDoA	0.00175	1.75	N	U		LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00175	1.75	N	U		LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00702	7.02	N	U		LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluoropentanoic Acid	PFPA	0.430	430	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluorohexanoic Acid	PFHxA	0.0279	27.9	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00599	5.99	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluorotetradecanoic Acid	PFTeA	0.00175	1.75	N	U		LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluorotridecanoic Acid	PFTriA	0.00204	2.04	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00351	3.51	N	U		LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluorodecanoic Acid	PFDA	0.00193	1.93	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluoroheptanoic Acid	PFHpA	0.0205	20.5	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
OHRV-0223-OUTLET 005-A-D	OUTLET 005	02/06/2023	Perfluorononanoic Acid	PFNA	0.00374	3.74	Y			LIQUID	DUP	OTHER LIQUID	39.27052689	-81.6768799
SW0223-OUTLET 005-020923	OUTLET 005	02/09/2023	PFOA	PFOA	0.173	173	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0223-OUTLET 005-020923	OUTLET 005	02/09/2023	Hfpo Dimer Acid	HFPO-DA	0.550	550	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW223-Outlet 005-021523	OUTLET 005	02/15/2023	PFOA	PFOA	0.165	165	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW223-Outlet 005-021523	OUTLET 005	02/15/2023	Hfpo Dimer Acid	HFPO-DA	0.203	203	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW223-OUTLET 005-021623	OUTLET 005	02/16/2023	PFOA	PFOA	0.161	161	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW223-OUTLET 005-021623	OUTLET 005	02/16/2023	Hfpo Dimer Acid	HFPO-DA	0.201	201	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW223-OUTLET 005-022323	OUTLET 005	02/23/2023	PFOA	PFOA	0.163	163	Y	F2		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW223-OUTLET 005-022323	OUTLET 005	02/23/2023	Hfpo Dimer Acid	HFPO-DA	0.963	963	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	PFECA-A	PFECA-A	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0446	44.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	DONA	DONA	0.00713	7.13	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	PFECA B	PFECA B	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorononanesulfonic Acid	PFNS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	PFOS	PFOS	0.00201	2.01	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluoroundecanoic Acid	PFUnA	0.00214	2.14	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorobutanoic Acid	PFBA	0.0233	23.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	PFECA-F	PFECA-F	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	PFOA	PFOA	0.197	197	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00713	7.13	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	PFECA-F	PFECA-F	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	PFOA	PFOA	0.197	197	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00713	7.13	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00713	7.13	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00713	7.13	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Hfpo Dimer Acid	HFPO-DA	0.764	764	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0178	17.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00713	7.13	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorododecanoic Acid	PFDoA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00713	7.13	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluoropentanoic Acid	PFPA	1.08	1080	Y	I	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorohexanoic Acid	PFHxA	0.0227	22.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00311	3.11	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00891	8.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorotridecanoic Acid	PFTriA	0.00182	1.82	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0446	44.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0178	17.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorodecanoic Acid	PFDA	0.00328	3.28	Y	I	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluoroheptanoic Acid	PFHpA	0.0157	15.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030223	OUTLET 005	03/02/2023	Perfluorononanoic Acid	PFNA	0.00462	4.62	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorononanesulfonic Acid	PFNS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	PFECA B	PFECA B	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	DONA	DONA	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0440	44	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	PFECA-A	PFECA-A	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	PFOA	PFOA	0.162	162	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	PFOS	PFOS	0.00190	1.9	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluoroundecanoic Acid	PFUnA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorobutanoic Acid	PFBA	0.0625	62.5	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	PFECA-F	PFECA-F	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Hfpo Dimer Acid	HFPO-DA	0.835	835	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00704	7.04	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluoropentanoic Acid	PFPA	1.07	1070	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorohexanoic Acid	PFHxA	0.0272	27.2	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00391	3.91	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00880	8.8	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorotridecanoic Acid	PFTriA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0440	44	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorodecanoic Acid	PFDA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluoroheptanoic Acid	PFHpA	0.0154	15.4	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-030923	OUTLET 005	03/09/2023	Perfluorononanoic Acid	PFNA	0.00311	3.11	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	PFECA-A	PFECA-A	0.00366	3.66	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0457	45.7	N	U,F1		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	DONA	DONA	0.00732	7.32	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	PFECA B	PFECA B	0.00366	3.66	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	Perfluorononanesulfonic Acid	PFNS	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-031623	OUTLET 005	03/16/2023	PFOS	PFOS	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0323-OUTLET 005-032323	OUTLET 005	03/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00347	3.47	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-032323	OUTLET 005	03/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0173	17.3	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-032323	OUTLET 005	03/23/2023	Perfluorodecanoic Acid	PFDA	0.00192	1.92	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-032323	OUTLET 005	03/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0145	14.5	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-032323	OUTLET 005	03/23/2023	Perfluorononanoic Acid	PFNA	0.00450	4.5	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	PFECA-A	PFECA-A	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0435	43.5	N	U,F2		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	DONA	DONA	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	PFECA B	PFECA B	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorononanesulfonic Acid	PFNS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	PFOS	PFOS	0.00194	1.94	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluoroundecanoic Acid	PFUnA	0.00785	7.85	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorobutanoic Acid	PFBA	0.0136	13.6	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	PFECA-F	PFECA-F	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00348	3.48	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	PFOA	PFOA	0.206	206	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00174	1.74	N	U,F1,F2		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00696	6.96	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Hfpo Dimer Acid	HFPO-DA	0.906	906	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0174	17.4	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorododecanoic Acid	PFDoA	0.00186	1.86	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00696	6.96	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluoropentanoic Acid	PFPA	0.0401	40.1	Y	I	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorohexanoic Acid	PFHxA	0.0271	27.1	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00364	3.64	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00869	8.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorotetradecanoic Acid	PFTeA	0.00188	1.88	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorotridecanoic Acid	PFTriA	0.0158	15.8	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorooctane Sulfonamide	PFOSA	0.00174	1.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0435	43.5	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00348	3.48	N	U,F1,F2		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0174	17.4	N	U,F2		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorodecanoic Acid	PFDA	0.00253	2.53	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluoroheptanoic Acid	PFHpA	0.0139	13.9	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0323-OUTLET 005-033023	OUTLET 005	03/30/2023	Perfluorononanoic Acid	PFNA	0.00668	6.68	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	PFECA B	PFECA B	0.00342	3.42	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	DONA	DONA	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0428	42.8	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	PFECA-A	PFECA-A	0.00342	3.42	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorononanesulfonic Acid	PFNS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00342	3.42	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	PFOA	PFOA	0.173	173	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	PFOS	PFOS	0.00178	1.78	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluoroundecanoic Acid	PFUnA	0.00806	8.06	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorobutanoic Acid	PFBA	0.800	800	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	PFECA-F	PFECA-F	0.00342	3.42	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Hfpo Dimer Acid	HFPO-DA	1.07	1070	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0171	17.1	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorododecanoic Acid	PFDoA	0.00273	2.73	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00685	6.85	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluoropentanoic Acid	PFPA	0.0527	52.7	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorohexanoic Acid	PFHxA	0.0255	25.5	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00311	3.11	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00856	8.56	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorotetradecanoic Acid	PFTeA	0.00198	1.98	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorotridecanoic Acid	PFTriA	0.0153	15.3	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorooctane Sulfonamide	PFOSA	0.00171	1.71	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0428	42.8	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00342	3.42	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0171	17.1	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorodecanoic Acid	PFDA	0.00408	4.08	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluoroheptanoic Acid	PFHpA	0.0138	13.8	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-040523	OUTLET 005	04/05/2023	Perfluorononanoic Acid	PFNA	0.00760	7.6	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	PFOA	PFOA	0.247	247	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0421	42.1	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	PFECA-A	PFECA-A	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	DONA	DONA	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	PFECA B	PFECA B	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00182	1.82	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	PFOS	PFOS	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluoroundecanoic Acid	PFUnA	0.0104	10.4	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorobutanoic Acid	PFBA	0.0777	77.7	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	PFECA-F	PFECA-F	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluoropentanoic Acid	PFPA	0.0248	24.8	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorohexanoic Acid	PFHxA	0.0297	29.7	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00476	4.76	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00842	8.42	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorotridecanoic Acid	PFTriA	0.0126	12.6	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0421	42.1	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Hfpo Dimer Acid	HFPO-DA	1.04	1040	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0168	16.8	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0198	19.8	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorododecanoic Acid	PFDoA	0.00179	1.79	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00168	1.68	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0168	16.8	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorodecanoic Acid	PFDA	0.00419	4.19	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluoroheptanoic Acid	PFHpA	0.0157	15.7	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW2Q23-OUTLET 005-A-041323	OUTLET 005	04/13/2023	Perfluorononanoic Acid	PFNA	0.00658	6.58	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	Perfluorononanesulfonic Acid	PFNS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	PFECA-A	PFECA-A	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0432	43.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	DONA	DONA	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	PFECA B	PFECA B	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	PFOS	PFOS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	Perfluoroundecanoic Acid	PFUnA	0.00574	5.74	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	Perfluorobutanoic Acid	PFBA	0.0691	69.1	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	PFECA-F	PFECA-F	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	PFOA	PFOA	0.136	136	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0423-OUTLET 005-042023	OUTLET 005	04/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00691	6.91	N	U	

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0423-OUTLET 005-042823	OUTLET 005	04/27/2023	Perfluorononanoic Acid	PFNA	0.00569	5.69	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	PFECA B	PFECA B	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	DONA	DONA	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0430	43	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	PFECA-A	PFECA-A	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorononanesulfonic Acid	PFNS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	PFOA	PFOA	0.178	178	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	PFOS	PFOS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluoroundecanoic Acid	PFUnA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorobutanoic Acid	PFBA	0.103	103	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	PFECA-F	PFECA-F	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00688	6.88	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluoropentanoic Acid	PFPA	0.190	190	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorohexanoic Acid	PFHxA	0.0152	15.2	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00314	3.14	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00860	8.6	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorotetradecanoic Acid	PFTeA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorotridecanoic Acid	PFTriA	0.00715	7.15	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorooctane Sulfonamide	PFOSA	0.00172	1.72	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0430	43	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00344	3.44	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0172	17.2	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorodecanoic Acid	PFDA	0.00350	3.5	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluoroheptanoic Acid	PFHpA	0.0197	19.7	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-A-050423	OUTLET 005	05/04/2023	Perfluorononanoic Acid	PFNA	0.00849	8.49	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorononanesulfonic Acid	PFNS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	PFECA-A	PFECA-A	0.00338	3.38	N	U,F2,F1,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0423	42.3	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	DONA	DONA	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	PFECA B	PFECA B	0.00338	3.38	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	PFOS	PFOS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluoroundecanoic Acid	PFUnA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorobutanoic Acid	PFBA	0.800	800	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	PFECA-F	PFECA-F	0.00338	3.38	N	U,F2,F1,cn	R	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00338	3.38	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	PFOA	PFOA	0.0792	79.2	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Hfpo Dimer Acid	HFPO-DA	0.0738	73.8	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0169	16.9	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00971	9.71	Y	cn	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorododecanoic Acid	PFDoA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00677	6.77	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluoropentanoic Acid	PFPA	0.0625	62.5	Y	I,cn	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorohexanoic Acid	PFHxA	0.00611	6.11	Y	I,cn	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00306	3.06	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00846	8.46	N	U,F2,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorotridecanoic Acid	PFTriA	0.00203	2.03	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0423	42.3	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00338	3.38	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0169	16.9	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorodecanoic Acid	PFDA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluoroheptanoic Acid	PFHpA	0.00430	4.3	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051123	OUTLET 005	05/11/2023	Perfluorononanoic Acid	PFNA	0.00169	1.69	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	PFECA B	PFECA B	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00269	2.69	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	DONA	DONA	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0422	42.2	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	PFECA-A	PFECA-A	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorononanesulfonic Acid	PFNS	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	PFOA	PFOA	0.0998	99.8	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	PFOS	PFOS	0.00192	1.92	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluoroundecanoic Acid	PFUnA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorobutanoic Acid	PFBA	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	PFECA-F	PFECA-F	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0651	65.1	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0169	16.9	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorododecanoic Acid	PFDoA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00674	6.74	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluoropentanoic Acid	PFPA	0.0107	10.7	Y		J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorohexanoic Acid	PFHxA	0.00525	5.25	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00455	4.55	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00843	8.43	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorotridecanoic Acid	PFTriA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorooctane Sulfonamide	PFOSA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0422	42.2	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00337	3.37	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0169	16.9	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorodecanoic Acid	PFDA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluoroheptanoic Acid	PFHpA	0.00336	3.36	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-051823	OUTLET 005	05/18/2023	Perfluorononanoic Acid	PFNA	0.00169	1.69	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Perfluorononanesulfonic Acid	PFNS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	PFECA-A	PFECA-A	0.00358	3.58	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0447	44.7	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	DONA	DONA	0.00715	7.15	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00187	1.87	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	PFECA B	PFECA B	0.00358	3.58	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	PFOS	PFOS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Perfluoroundecanoic Acid	PFUnA	0.00697	6.97	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Perfluorobutanoic Acid	PFBA	0.0381	38.1	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	PFECA-F	PFECA-F	0.00358	3.58	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00358	3.58	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	PFOA	PFOA	0.0915	91.5	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00715	7.15	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Hfpo Dimer Acid	HFPO-DA	0.532	532	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0179	17.9	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00795	7.95	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Perfluorododecanoic Acid	PFDoA	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00715	7.15	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-052523	OUTLET 005	05/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0523-OUTLET 005-

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	PFECA B	PFECA B	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00396	3.96	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorononanesulfonic Acid	PFNS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	PFOS	PFOS	0.00257	2.57	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluoroundecanoic Acid	PFUnA	0.0124	12.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorobutanoic Acid	PFBA	0.0656	65.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	PFECA-F	PFECA-F	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	PFOA	PFOA	0.100	100	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Hfpo Dimer Acid	HFPO-DA	0.238	238	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0173	17.3	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorododecanoic Acid	PFDoA	0.00345	3.45	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00691	6.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluoropentanoic Acid	PFPA	4.48	4480	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorohexanoic Acid	PFHxA	0.0109	10.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00283	2.83	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00864	8.64	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorotetradecanoic Acid	PFTeA	0.00436	4.36	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorotridecanoic Acid	PFTriA	0.0368	36.8	Y	F2	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorooctane Sulfonamide	PFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0432	43.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0173	17.3	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorodecanoic Acid	PFDA	0.00356	3.56	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluoroheptanoic Acid	PFHpA	0.0110	11	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-060823	OUTLET 005	06/08/2023	Perfluorononanoic Acid	PFNA	0.00543	5.43	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorononanesulfonic Acid	PFNS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00334	3.34	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	PFECA B	PFECA B	0.00355	3.55	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	DONA	DONA	0.00711	7.11	N	U,*+,cn		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0444	44.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	PFECA-A	PFECA-A	0.00355	3.55	N	U,F1		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00355	3.55	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	PFOA	PFOA	0.104	104	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00711	7.11	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	PFOS	PFOS	0.00280	2.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluoroundecanoic Acid	PFUnA	0.00839	8.39	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorobutanoic Acid	PFBA	0.0658	65.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	PFECA-F	PFECA-F	0.00355	3.55	N	U,F1		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Hfpo Dimer Acid	HFPO-DA	0.762	762	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0178	17.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00711	7.11	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorododecanoic Acid	PFDoA	0.00387	3.87	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00711	7.11	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00711	7.11	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00711	7.11	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluoropentanoic Acid	PFPA	3.39	3390	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorohexanoic Acid	PFHxA	0.0126	12.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00338	3.38	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00889	8.89	N	U,F1		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.00484	4.84	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0256	25.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorooctane Sulfonamide	PFOSA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0444	44.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00355	3.55	N	U,F1		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0178	17.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorodecanoic Acid	PFDA	0.00413	4.13	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0115	11.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-061523	OUTLET 005	06/15/2023	Perfluorononanoic Acid	PFNA	0.00701	7.01	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	PFECA-A	PFECA-A	0.00373	3.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0466	46.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	DONA	DONA	0.00746	7.46	N	U,*+,cn		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	PFECA B	PFECA B	0.00373	3.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0104	10.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorononanesulfonic Acid	PFNS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	PFOS	PFOS	0.00254	2.54	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluoroundecanoic Acid	PFUnA	0.00895	8.95	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorobutanoic Acid	PFBA	0.0360	36	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	PFECA-F	PFECA-F	0.00373	3.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00373	3.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	PFOA	PFOA	0.116	116	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00746	7.46	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00746	7.46	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00746	7.46	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Hfpo Dimer Acid	HFPO-DA	1.12	1120	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0186	18.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00746	7.46	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorododecanoic Acid	PFDoA	0.00265	2.65	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00746	7.46	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluoropentanoic Acid	PFPA	0.512	512	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorohexanoic Acid	PFHxA	0.0148	14.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00307	3.07	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00932	9.32	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.00344	3.44	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0227	22.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorooctane Sulfonamide	PFOSA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0466	46.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00373	3.73	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0186	18.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorodecanoic Acid	PFDA	0.00479	4.79	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluoroheptanoic Acid	PFHpA	0.0115	11.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062223	OUTLET 005	06/22/2023	Perfluorononanoic Acid	PFNA	0.00819	8.19	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluorononanesulfonic Acid	PFNS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00337	3.37	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	PFECA B	PFECA B	0.00337	3.37	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	DONA	DONA	0.00674	6.74	N	U,*+,cn		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0421	42.1	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	PFECA-A	PFECA-A	0.00337	3.37	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00337	3.37	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	PFOA	PFOA	0.112	112	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00674	6.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	PFOS	PFOS	0.00291	2.91	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluoroundecanoic Acid	PFUnA	0.00915	9.15	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluorobutanoic Acid	PFBA	0.0611	61.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	PFECA-F	PFECA-F	0.00337	3.37	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Hfpo Dimer Acid	HFPO-DA	0.787	787	Y	^2		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0168	16.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0129	12.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluorododecanoic Acid	PFDoA	0.00333	3.33	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00674	6.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0623-OUTLET 005-062923	OUTLET 005	06/29/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00341	3.41	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	PFOA	PFOA	0.0937	93.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	PFOS	PFOS	0.00274	2.74	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00267	2.67	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorobutanoic Acid	PFBA	0.159	159	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	PFECA-F	PFECA-F	0.00341	3.41	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluoropentanoic Acid	PFPA	0.0132	13.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorohexanoic Acid	PFHxA	0.0118	11.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00228	2.28	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00852	8.52	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00183	1.83	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00722	7.22	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0426	42.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Hfpo Dimer Acid	HFPO-DA	0.420	420	Y	^2		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorododecanoic Acid	PFDoA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00341	3.41	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorodecanoic Acid	PFDA	0.00255	2.55	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluoroheptanoic Acid	PFHpA	0.00800	8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW3Q23-OUTLET 005-A-071323	OUTLET 005	07/13/2023	Perfluorononanoic Acid	PFNA	0.00369	3.69	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorononanesulfonic Acid	PFNS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	PFECA-A	PFECA-A	0.00336	3.36	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0420	42	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	DONA	DONA	0.00671	6.71	N	U,cn		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	PFECA B	PFECA B	0.00336	3.36	N	U,F2		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00242	2.42	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	PFOS	PFOS	0.00292	2.92	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluoroundecanoic Acid	PFUnA	0.00641	6.41	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorobutanoic Acid	PFBA	0.159	159	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	PFECA-F	PFECA-F	0.00336	3.36	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00336	3.36	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	PFOA	PFOA	0.0875	87.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00671	6.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Hfpo Dimer Acid	HFPO-DA	0.300	300	Y	F1,^2	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0168	16.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00900	9	Y	^2		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorododecanoic Acid	PFDoA	0.00175	1.75	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00671	6.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00671	6.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00671	6.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluoropentanoic Acid	PFPA	0.0232	23.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorohexanoic Acid	PFHxA	0.0115	11.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00236	2.36	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00839	8.39	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.00280	2.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorotridecanoic Acid	PFTriA	0.0192	19.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorooctane Sulfonamide	PFOSA	0.00168	1.68	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0420	42	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00336	3.36	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0168	16.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorodecanoic Acid	PFDA	0.00265	2.65	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluoroheptanoic Acid	PFHpA	0.0112	11.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072023	OUTLET 005	07/20/2023	Perfluorononanoic Acid	PFNA	0.00641	6.41	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00257	2.57	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	PFECA B	PFECA B	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	DONA	DONA	0.00680	6.8	N	U,cn		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0425	42.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	PFECA-A	PFECA-A	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorononanesulfonic Acid	PFNS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	PFOA	PFOA	0.0842	84.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00680	6.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	PFOS	PFOS	0.00336	3.36	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluoroundecanoic Acid	PFUnA	0.00435	4.35	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorobutanoic Acid	PFBA	0.104	104	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	PFECA-F	PFECA-F	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00680	6.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00680	6.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Hfpo Dimer Acid	HFPO-DA	0.394	394	Y	^2		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00680	6.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorododecanoic Acid	PFDoA	0.00199	1.99	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00680	6.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluoropentanoic Acid	PFPA	0.0315	31.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorohexanoic Acid	PFHxA	0.0105	10.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00297	2.97	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00850	8.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorotetradecanoic Acid	PFTeA	0.00569	5.69	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorotridecanoic Acid	PFTriA	0.0301	30.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorooctane Sulfonamide	PFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0425	42.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00340	3.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorodecanoic Acid	PFDA	0.00250	2.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluoroheptanoic Acid	PFHpA	0.00872	8.72	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0723-OUTLET 005-072723	OUTLET 005	07/27/2023	Perfluorononanoic Acid	PFNA	0.00505	5.05	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00289	2.89	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	PFECA B	PFECA B	0.00369	3.69	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	DONA	DONA	0.00739	7.39	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0462	46.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	PFECA-A	PFECA-A	0.00369	3.69	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorononanesulfonic Acid	PFNS	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	PFOS	PFOS	0.00264	2.64	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluoroundecanoic Acid	PFUnA	0.00391	3.91	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorobutanoic Acid	PFBA	0.0776	77.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	PFECA-F	PFECA-F	0.00369	3.69	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00369	3.69	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	PFOA	PFOA	0.0749	74.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00739	7.39	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Hfpo Dimer Acid	HFPO-DA	0.369	369	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0185	18.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00739	7.39	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorododecanoic Acid	PFDoA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00739	7.39	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluoropentanoic Acid	PFPA	0.0827	82.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorohexanoic Acid	PFHxA	0.00865	8.65	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00225	2.25	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00924	9.24	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorotetradecanoic Acid	PFTeA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorotridecanoic Acid	PFTriA	0.0146	14.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	Perfluorooctane Sulfonamide	PFOSA	0.00185	1.85	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-A	OUTLET 005	08/03/2023	7:3 Fluor

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00703	7.03	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	PFOS	PFOS	0.00352	3.52	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluoroundecanoic Acid	PFUnA	0.00235	2.35	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorobutanoic Acid	PFBA	0.0517	51.7	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	PFECA-F	PFECA-F	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Hfpo Dimer Acid	HFPO-DA	0.525	525	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00703	7.03	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00703	7.03	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00703	7.03	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00703	7.03	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluoropentanoic Acid	PFPA	0.500	500	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorohexanoic Acid	PFHxA	0.0109	10.9	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00189	1.89	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00879	8.79	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorotridecanoic Acid	PFTriA	0.00582	5.82	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0440	44	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorodecanoic Acid	PFDA	0.00224	2.24	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluoroheptanoic Acid	PFHpA	0.00836	8.36	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-081723	OUTLET 005	08/17/2023	Perfluorononanoic Acid	PFNA	0.00441	4.41	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00227	2.27	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	PFECA B	PFECA B	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	DONA	DONA	0.00712	7.12	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0445	44.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	PFECA-A	PFECA-A	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorononanesulfonic Acid	PFNS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	PFOS	PFOS	0.00326	3.26	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluoroundecanoic Acid	PFUnA	0.00825	8.25	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorobutanoic Acid	PFBA	0.0305	30.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	PFECA-F	PFECA-F	0.00356	3.56	N	U,F2,F1	UJ	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	PFOA	PFOA	0.119	119	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00712	7.12	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Hfpo Dimer Acid	HFPO-DA	0.912	912	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0178	17.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00712	7.12	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorododecanoic Acid	PFDoA	0.00222	2.22	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00712	7.12	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluoropentanoic Acid	PFPA	0.0379	37.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorohexanoic Acid	PFHxA	0.0173	17.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00890	8.9	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorotridecanoic Acid	PFTriA	0.00758	7.58	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0445	44.5	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00356	3.56	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0178	17.8	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorodecanoic Acid	PFDA	0.00609	6.09	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0153	15.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorononanoic Acid	PFNA	0.00889	8.89	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00178	1.78	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00712	7.12	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-082423	OUTLET 005	08/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00712	7.12	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorononanesulfonic Acid	PFNS	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	PFECA-A	PFECA-A	0.00382	3.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0477	47.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	DONA	DONA	0.00764	7.64	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	PFECA B	PFECA B	0.00382	3.82	N	U,cn		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00477	4.77	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00382	3.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	PFOA	PFOA	0.241	241	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00764	7.64	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	PFOS	PFOS	0.00332	3.32	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluoroundecanoic Acid	PFUnA	0.0118	11.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorobutanoic Acid	PFBA	0.0595	59.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	PFECA-F	PFECA-F	0.00382	3.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Hfpo Dimer Acid	HFPO-DA	0.458	458	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0191	19.1	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00764	7.64	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorododecanoic Acid	PFDoA	0.00260	2.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00764	7.64	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluoropentanoic Acid	PFPA	0.0366	36.6	Y	I	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorohexanoic Acid	PFHxA	0.0188	18.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00299	2.99	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00955	9.55	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorotetradecanoic Acid	PFTeA	0.00221	2.21	Y	I	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorotridecanoic Acid	PFTriA	0.0164	16.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorooctane Sulfonamide	PFOSA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0477	47.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00191	1.91	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00764	7.64	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00764	7.64	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00382	3.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0191	19.1	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorodecanoic Acid	PFDA	0.00814	8.14	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluoroheptanoic Acid	PFHpA	0.0255	25.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0823-OUTLET 005-083123	OUTLET 005	08/31/2023	Perfluorononanoic Acid	PFNA	0.0131	13.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00392	3.92	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00170	1.7	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	PFECA B	PFECA B	0.00340	3.4	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00170	1.7	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	DONA	DONA	0.00680	6.8	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0425	42.5	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	PFECA-A	PFECA-A	0.00340	3.4	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00170	1.7	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorononanesulfonic Acid	PFNS	0.00170	1.7	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00340	3.4	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	PFOA	PFOA	0.526	526	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00680	6.8	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	PFOS	PFOS	0.00692	6.92	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluoroundecanoic Acid	PFUnA	0.0313	31.3	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorobutanoic Acid	PFBA	0.214	214	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	PFECA-F	PFECA-F	0.00340	3.4	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Hfpo Dimer Acid	HFPO-DA	2.44	2440	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00680	6.8	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorododecanoic Acid	PFDoA	0.00922	9.22	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00680	6.8	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluoropentanoic Acid	PFPA	0.0640	64	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorohexanoic Acid	PFHxA	0.0499	49.9	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00894	8.94	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00850	8.5	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorotetradecanoic Acid	PFTeA	0.00698	6.98	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorotridecanoic Acid	PFTriA	0.0667	66.7	Y	cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	Perfluorooctane Sulfonamide	PFOSA	0.00170	1.7	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0425	42.5	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00340	3.4	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-A-090723	OUTLET 005	09/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0170	17	N	U,cn		LIQUID	FS	Other liquid	39.27052689	-

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	PFECA-F	PFECA-F	0.0169	16.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Hfpo Dimer Acid	HFPO-DA	0.968	968	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0177	17.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorododecanoic Acid	PFDoA	0.00469	4.69	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluoropentanoic Acid	PFPA	1.10	1100	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorohexanoic Acid	PFHxA	4.27	4270	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0172	17.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00884	8.84	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.00327	3.27	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorotridecanoic Acid	PFTriA	0.0224	22.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorooctane Sulfonamide	PFOSA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.442	442	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0177	17.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorodecanoic Acid	PFDA	0.00773	7.73	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0333	33.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorononanoic Acid	PFNA	0.0103	10.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00178	1.78	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092123	OUTLET 005	09/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorononanesulfonic Acid	PFNS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	PFECA-A	PFECA-A	0.00354	3.54	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0442	44.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	DONA	DONA	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	PFECA B	PFECA B	0.00354	3.54	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00333	3.33	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	PFOS	PFOS	0.00542	5.42	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0153	15.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorobutanoic Acid	PFBA	0.138	138	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	PFECA-F	PFECA-F	0.00354	3.54	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00354	3.54	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	PFOA	PFOA	0.417	417	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Hfpo Dimer Acid	HFPO-DA	1.17	1170	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0177	17.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorododecanoic Acid	PFDoA	0.00795	7.95	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluoropentanoic Acid	PFPA	0.799	799	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorohexanoic Acid	PFHxA	0.327	327	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00895	8.95	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00884	8.84	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.00644	6.44	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0341	34.1	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0442	44.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0177	17.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorodecanoic Acid	PFDA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluoroheptanoic Acid	PFHpA	0.00497	4.97	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW0923-OUTLET 005-092823	OUTLET 005	09/28/2023	Perfluorononanoic Acid	PFNA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00431	4.31	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	PFECA B	PFECA B	0.00341	3.41	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	DONA	DONA	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0426	42.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	PFECA-A	PFECA-A	0.00341	3.41	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorononanesulfonic Acid	PFNS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00341	3.41	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	PFOA	PFOA	0.118	118	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	PFOS	PFOS	0.00415	4.15	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluoroundecanoic Acid	PFUnA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorobutanoic Acid	PFBA	0.0334	33.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	PFECA-F	PFECA-F	0.00341	3.41	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Hfpo Dimer Acid	HFPO-DA	0.0867	86.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0171	17.1	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorododecanoic Acid	PFDoA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluoropentanoic Acid	PFPA	0.186	186	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorohexanoic Acid	PFHxA	0.0494	49.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00488	4.88	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00853	8.53	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorotridecanoic Acid	PFTriA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorooctane Sulfonamide	PFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0426	42.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00682	6.82	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00341	3.41	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0171	17.1	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorodecanoic Acid	PFDA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluoroheptanoic Acid	PFHpA	0.00483	4.83	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101223	OUTLET 005	10/12/2023	Perfluorononanoic Acid	PFNA	0.00209	2.09	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorononanesulfonic Acid	PFNS	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	PFECA-A	PFECA-A	0.00356	3.56	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0445	44.5	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	DONA	DONA	0.00712	7.12	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	PFECA B	PFECA B	0.00356	3.56	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00438	4.38	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	PFOS	PFOS	0.00356	3.56	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluoroundecanoic Acid	PFUnA	0.00230	2.3	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorobutanoic Acid	PFBA	0.0156	15.6	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	PFECA-F	PFECA-F	0.00356	3.56	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00356	3.56	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	PFOA	PFOA	0.146	146	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00712	7.12	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Hfpo Dimer Acid	HFPO-DA	0.186	186	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0178	17.8	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00712	7.12	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorododecanoic Acid	PFDoA	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00712	7.12	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluoropentanoic Acid	PFPA	0.147	147	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorohexanoic Acid	PFHxA	0.0202	20.2	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00486	4.86	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00890	8.9	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorotetradecanoic Acid	PFTeA	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorotridecanoic Acid	PFTriA	0.00973	9.73	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorooctane Sulfonamide	PFOSA	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0445	44.5	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00356	3.56	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0178	17.8	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorodecanoic Acid	PFDA	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluoroheptanoic Acid	PFHpA	0.00545	5.45	Y			LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorononanoic Acid	PFNA	0.00234	2.34	Y	F1	J	LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-101923	OUTLET 005	10/19/2023	Perfluorodecane

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorododecanoic Acid	PFDoA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00690	6.9	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluoropentanoic Acid	PFPA	0.0852	85.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorohexanoic Acid	PFHxA	0.00851	8.51	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00516	5.16	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00862	8.62	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorotetradecanoic Acid	PFTeA	0.00189	1.89	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorotridecanoic Acid	PFTriA	0.0123	12.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorooctane Sulfonamide	PFOSA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0431	43.1	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00690	6.9	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00690	6.9	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0172	17.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorodecanoic Acid	PFDA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluoroheptanoic Acid	PFHpA	0.00611	6.11	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1023-OUTLET 005-102623	OUTLET 005	10/26/2023	Perfluorononanoic Acid	PFNA	0.00241	2.41	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00618	6.18	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	PFECA B	PFECA B	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	DONA	DONA	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0442	44.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	PFECA-A	PFECA-A	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorononanesulfonic Acid	PFNS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	PFOS	PFOS	0.00355	3.55	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluoroundecanoic Acid	PFUnA	0.00381	3.81	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorobutanoic Acid	PFBA	0.0109	10.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	PFECA-F	PFECA-F	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	PFOA	PFOA	0.150	150	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Hfpo Dimer Acid	HFPO-DA	0.121	121	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0177	17.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorododecanoic Acid	PFDoA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluoropentanoic Acid	PFPA	0.149	149	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorohexanoic Acid	PFHxA	0.00834	8.34	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00499	4.99	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00883	8.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorotridecanoic Acid	PFTriA	0.0144	14.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0442	44.2	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0177	17.7	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorodecanoic Acid	PFDA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluoroheptanoic Acid	PFHpA	0.00505	5.05	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorononanoic Acid	PFNA	0.00284	2.84	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00177	1.77	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-A-110223	OUTLET 005	11/02/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00707	7.07	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00642	6.42	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	PFECA B	PFECA B	0.00348	3.48	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	DONA	DONA	0.00697	6.97	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0436	43.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	PFECA-A	PFECA-A	0.00348	3.48	N	U,F1		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorononanesulfonic Acid	PFNS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	PFOS	PFOS	0.00427	4.27	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluoroundecanoic Acid	PFUnA	0.00351	3.51	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorobutanoic Acid	PFBA	0.292	292	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	PFECA-F	PFECA-F	0.00348	3.48	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00348	3.48	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	PFOA	PFOA	0.193	193	Y	I	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00697	6.97	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Hfpo Dimer Acid	HFPO-DA	0.138	138	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0174	17.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0118	11.8	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorododecanoic Acid	PFDoA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00697	6.97	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluoropentanoic Acid	PFPA	0.250	250	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorohexanoic Acid	PFHxA	0.0197	19.7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00530	5.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00871	8.71	N	U,F1,*+,cn		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorotetradecanoic Acid	PFTeA	0.00222	2.22	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorotridecanoic Acid	PFTriA	0.0116	11.6	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorooctane Sulfonamide	PFOSA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0436	43.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00348	3.48	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0174	17.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorodecanoic Acid	PFDA	0.00311	3.11	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluoroheptanoic Acid	PFHpA	0.00763	7.63	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorononanoic Acid	PFNA	0.00434	4.34	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00697	6.97	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-110923	OUTLET 005	11/09/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00697	6.97	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorononanesulfonic Acid	PFNS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	PFECA-A	PFECA-A	0.00371	3.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0464	46.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	DONA	DONA	0.00742	7.42	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	PFECA B	PFECA B	0.00371	3.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00850	8.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00371	3.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	PFOA	PFOA	0.223	223	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00742	7.42	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	PFOS	PFOS	0.00369	3.69	Y		J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluoroundecanoic Acid	PFUnA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorobutanoic Acid	PFBA	0.0404	40.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	PFECA-F	PFECA-F	0.00371	3.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Hfpo Dimer Acid	HFPO-DA	0.0734	73.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluoropentanoic Acid	PFPA	0.0284	28.4	Y	I	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorohexanoic Acid	PFHxA	0.0112	11.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00526	5.26	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00928	9.28	N	U,F1		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorotridecanoic Acid	PFTriA	0.00199	1.99	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorooctane Sulfonamide	PFOSA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0464	46.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0186	18.6	N	U,F1		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0170	17	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorododecanoic Acid	PFDoA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00742	7.42	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00186	1.86	N	U,F1		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00742	7.42	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00742	7.42	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00371	3.71	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0186	18.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorodecanoic Acid	PFDA	0.00186	1.86	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluoroheptanoic Acid	PFHpA	0.00700	7	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-111623	OUTLET 005	11/16/2023	Perfluorononanoic Acid	PFNA	0.00224	2.24	Y	F1	J	Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-112123	OUTLET 005	11/21/2023	Perfluorobutane Sulfonic Acid	P

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0436	43.6	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	Hfpo Dimer Acid	HFPO-DA	0.0675	67.5	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0174	17.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00697	6.97	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	Perfluorododecanoic Acid	PFDoA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00697	6.97	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00697	6.97	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00697	6.97	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00349	3.49	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0174	17.4	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	Perfluorodecanoic Acid	PFDA	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	Perfluoroheptanoic Acid	PFHpA	0.00607	6.07	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1123-OUTLET 005-113023	OUTLET 005	11/30/2023	Perfluorononanoic Acid	PFNA	0.00214	2.14	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00734	7.34	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00734	7.34	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00734	7.34	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0183	18.3	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0183	18.3	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00917	9.17	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0459	45.9	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00734	7.34	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0459	45.9	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00734	7.34	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	DONA	DONA	0.00734	7.34	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Hfpo Dimer Acid	HFPO-DA	0.0413	41.3	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00367	3.67	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00367	3.67	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00242	2.42	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorobutanoic Acid	PFBA	0.0149	14.9	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorodecanoic Acid	PFDA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorododecanoic Acid	PFDoA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluoroheptanoic Acid	PFHpA	0.00693	6.93	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00292	2.92	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorohexanoic Acid	PFHxA	0.0144	14.4	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorononanesulfonic Acid	PFNS	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorononanoic Acid	PFNA	0.00201	2.01	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorooctane Sulfonamide	PFOSA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluoropentanoic Acid	PFPA	0.0222	22.2	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorotetradecanoic Acid	PFTeA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluorotridecanoic Acid	PFTriA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	Perfluoroundecanoic Acid	PFUnA	0.00183	1.83	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	PFECA B	PFECA B	0.00367	3.67	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	PFECA-A	PFECA-A	0.00367	3.67	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	PFECA-F	PFECA-F	0.00367	3.67	N	U		Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	PFOA	PFOA	0.213	213	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
SW1223-OUTLET 005-A	OUTLET 005	12/07/2023	PFOS	PFOS	0.00228	2.28	Y			Liquid	FS	Other liquid	39.27052689	-81.6768799
Outfall006-082118-2	OUTLET 006	08/21/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00099	0.99	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0082	8.2	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFOA	PFOA	0.87	870	Y	E		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorononanesulfonic Acid	PFNS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0047	4.7	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0082	8.2	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00099	0.99	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorobutane Sulfonic Acid	PFBS	0.0062	6.2	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFOS	PFOS	0.021	21	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluoroundecanoic Acid	PFUnA	0.021	21	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorobutanoic Acid	PFBA	0.036	36	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	NaDONA	NaDONA	0.00099	0.99	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluoropentanoic Acid	PFPA	0.029	29	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorohexanoic Acid	PFHxA	0.035	35	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.017	17	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorotetradecanoic Acid	PFTeA	0.013	13	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorotridecanoic Acid	PFTriA	0.018	18	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorooctane Sulfonamide	PFOSA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Hfpo Dimer Acid	HFPO-DA	3.9	3900	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorododecanoic Acid	PFDoA	0.021	21	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00091	0.91	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorooctadecanoic Acid	PFODA	0.0021	2.1	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorodecanoic Acid	PFDA	0.016	16	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluoroheptanoic Acid	PFHpA	0.047	47	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorononanoic Acid	PFNA	0.02	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0082	8.2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0028	2.8	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	Perfluorodecane Sulfonic Acid	PFDS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall006-082118-2	OUTLET 006	08/21/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0818-OUTLET 006-2	OUTLET 006	08/22/2018	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0818-OUTLET 006-2	OUTLET 006	08/22/2018	APFO	APFO	1.1	1100	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0818-OUTLET 006-2	OUTLET 006	08/22/2018	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0918-OUTLET 006	OUTLET 006	09/13/2018	PFOA	PFOA	1.1	1100	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0918-OUTLET 006	OUTLET 006	09/13/2018	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0918-OUTLET 006-D	OUTLET 006	09/13/2018	PFOA	PFOA	0.73	730	Y		J	Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0918-OUTLET 006-D	OUTLET 006	09/13/2018	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.0032	3.2	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00036	0.36	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00037	0.37	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0027	2.7	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00028	0.28	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0027	2.7	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.00054	0.54	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PFOA	PFOA	0.9	900	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.00059	0.59	Y	J	J	Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PFOS	PFOS	0.021	21	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.011	11	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluorobutanoic Acid	PFBA	0.03	30	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	NaDONA	NaDONA	0.00028	0.28	N	U	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluoropentanoic Acid	PFPA	0.027	27	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluorohexanoic Acid	PFHxA	0.035	35	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.02	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluorotridecanoic Acid	PFTriA	0.0022	2.2	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.00045	0.45	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918	OUTLET 006	09/20/2018	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
OUTFALL_006-0918

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U,I		Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	PFOA	PFOA	0.36	360	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	PFOS	PFOS	0.0053	5.3	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluoroundecanoic Acid	PFUnA	0.014	14	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluoropentanoic Acid	PFPA	0.02	20	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluorohexanoic Acid	PFHxA	0.035	35	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0051	5.1	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	APFO	APFO	0.38	380	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluorotridecanoic Acid	PFTriA	0.0023	2.3	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluorodecanoic Acid	PFDA	0.013	13	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluoroheptanoic Acid	PFHpA	0.031	31	Y	F1	J	Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluorononanoic Acid	PFNA	0.022	22	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-1-041019-A	OUTLET 006	04/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-2-041019-A	OUTLET 006	04/10/2019	PFOA	PFOA	0.28	280	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-2-041019-A	OUTLET 006	04/10/2019	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-3-041019-A	OUTLET 006	04/10/2019	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-3-041019-A	OUTLET 006	04/10/2019	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-4-041019-A	OUTLET 006	04/10/2019	PFOA	PFOA	0.71	710	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
Outlet 006-4-041019-A	OUTLET 006	04/10/2019	Hfpo Dimer Acid	HFPO-DA	6.0	6000	Y			Liquid	FS	Other Liquid	39.264801025	-81.67874908
SW519-OUTLET 006	OUTLET 006	05/02/2019	PFOA	PFOA	0.34	340	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW519-OUTLET 006	OUTLET 006	05/02/2019	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW519-OUTLET 006-D	OUTLET 006	05/02/2019	PFOA	PFOA	0.33	330	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW519-OUTLET 006-D	OUTLET 006	05/02/2019	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	PFOA	PFOA	0.39	390	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0023	2.3	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	PFOS	PFOS	0.012	12	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluoroundecanoic Acid	PFUnA	0.025	25	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluoropentanoic Acid	PFPA	0.024	24	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluorohexanoic Acid	PFHxA	0.019	19	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0085	8.5	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluorotetradecanoic Acid	PFTeA	0.008	8	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	APFO	APFO	0.40	400	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluorotridecanoic Acid	PFTriA	0.011	11	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Hfpo Dimer Acid	HFPO-DA	3.8	3800	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluorodecanoic Acid	PFDA	0.013	13	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluoroheptanoic Acid	PFHpA	0.019	19	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-060519-A	Outlet 006	06/05/2019	Perfluorononanoic Acid	PFNA	0.014	14	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-060619-A	Outlet 006	06/06/2019	PFOA	PFOA	0.46	460	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-060619-A	Outlet 006	06/06/2019	Hfpo Dimer Acid	HFPO-DA	6.6	6600	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-3-060619-A	Outlet 006	06/06/2019	PFOA	PFOA	0.28	280	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-3-060619-A	Outlet 006	06/06/2019	Hfpo Dimer Acid	HFPO-DA	4.3	4300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-4-060619-A	Outlet 006	06/06/2019	PFOA	PFOA	0.85	850	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-4-060619-A	Outlet 006	06/06/2019	Hfpo Dimer Acid	HFPO-DA	5.4	5400	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.00084	0.84	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0032	3.2	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	DONA	DONA	0.00084	0.84	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	PFOS	PFOS	0.01	10	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluoroundecanoic Acid	PFUnA	0.016	16	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluorohexanoic Acid	PFHxA	0.037	37	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.01	10	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluorotetradecanoic Acid	PFTeA	0.00084	0.84	N	<	UJ	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluorotridecanoic Acid	PFTriA	0.0027	2.7	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluorododecanoic Acid	PFDoA	0.013	13	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0025	2.5	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluorodecanoic Acid	PFDA	0.019	19	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluoroheptanoic Acid	PFHpA	0.042	42	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-A	OUTLET 006	06/06/2019	Perfluorononanoic Acid	PFNA	0.026	26	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	DONA	DONA	0.00087	0.87	N	<		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0028	2.8	Y		J	Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.00087	0.87	N	<		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluorohexanoic Acid	PFHxA	0.034	34	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0097	9.7	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluorotetradecanoic Acid	PFTeA	0.0045	4.5	Y		J	Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluorotridecanoic Acid	PFTriA	0.0032	3.2	Y		J	Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	PFOS	PFOS	0.01	10	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluoroundecanoic Acid	PFUnA	0.016	16	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluorododecanoic Acid	PFDoA	0.012	12	Y		J	Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0026	2.6	N	<		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluorodecanoic Acid	PFDA	0.017	17	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluoroheptanoic Acid	PFHpA	0.041	41	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	Perfluorononanoic Acid	PFNA	0.026	26	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q19-OUTLET 006-D-A	OUTLET 006	06/06/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW619-OUTLET 006	OUTLET 006	06/06/2019	PFOA	PFOA	0.52	520	Y	H,F1	J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW619-OUTLET 006	OUTLET 006	06/06/2019	Hfpo Dimer Acid	HFPO-DA	6.3	6300	Y	H	J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW619-OUTLET 006-D	OUTLET 006	06/06/2019	PFOA	PFOA	0.53	530	Y	H		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW619-OUTLET 006-D	OUTLET 006	06/06/2019	Hfpo Dimer Acid	HFPO-DA	6.0	6000	Y	H	J	Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW719-OUTLET 006	OUTLET 006	07/02/2019	PFOA	PFOA	0.29	290	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW719-OUTLET 006	OUTLET 006	07/02/2019	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW719-OUTLET 006-D	OUTLET 006	07/02/2019	PFOA	PFOA	0.30	300	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW719-OUTLET 006-D	OUTLET 006	07/02/2019	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
Outlet 006-2-070819-A	Outlet 006	07/08/2019	PFOA	PFOA	0.68	680	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-070819-A	Outlet 006	07/08/2019	Hfpo Dimer Acid	HFPO-DA	3.4	3400	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-3-070819-A	Outlet 006	07/08/2019	PFOA	PFOA	0.73	730	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-3-070819-A	Outlet 006	07/08/2019	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-4-070819-A	Outlet 006	07/08/2019	PFOA	PFOA	0.99	990	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-4-070819-A	Outlet 006	07/08/2019	Hfpo Dimer Acid	HFPO-DA	2.5	2500	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	PFOA	PFOA	0.4	400	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	PFOS	PFOS	0.017	17	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluoroundecanoic Acid	PFUnA	0.02	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluoropentanoic Acid	PFPA	0.025	25	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluorohexanoic Acid	PFHxA	0.025	25	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0057	5.7	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	APFO	APFO	0.42	420	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluorotridecanoic Acid	PFTriA	0.0032	3.2	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluorodecanoic Acid	PFDA	0.015	15	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluoroheptanoic Acid	PFHpA	0.028	28	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluorononanoic Acid	PFNA	0.015	15	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-071019-A	Outlet 006	07/10/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW819-OUTLET 006	OUTLET 006	08/01/2019	PFOA	PFOA	0.30	300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW819-OUTLET 006	OUTLET 006	08/01/2019	Hfpo Dimer Acid	HFPO-DA	0.74	740	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW819-OUTLET 006-D	OUTLET 006	08/01/2019	PFOA	PFOA	0.31	310	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW819-OUTLET 006-D	OUTLET 006	08/01/2019	Hfpo Dimer Acid	HFPO-DA	0.80	800	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-080719-A	Outlet 006	08/07/2019	PFOA	PFOA	0.59	590	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-080719-A	Outlet 006	08/07/2019	Hfpo Dimer Acid	HFPO-DA	1.4	1400	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-080719-A	Outlet 006	08/07/2019	PFOA	PFOA	0.56	560	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-080719-A	Outlet 006	08/07/2019	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-3-STORM-080719-A	Outlet 006	08/07/2019	PFOA	PFOA	0.56	560	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-3-STORM-080719-A	Outlet 006	08/07/2019	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-4-STORM-080719-A	Outlet 006	08/07/2019	PFOA	PFOA	0.58	580	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-4-STORM-080719-A	Outlet 006	08/07/2019	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	PFOA	PFOA	0.29	290	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	PFOS	PFOS	0.0071	7.1	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluoroundecanoic Acid	PFUnA	0.011	11	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluoropentanoic Acid	PFPA	0.011	11	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluorohexanoic Acid	PFHxA	0.014	14	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0083	8.3	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluorotetradecanoic Acid	PFTeA	0.0029	2.9	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	APFO	APFO	0.31	310	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluorotridecanoic Acid	PFTriA	0.0035	3.5	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluorooctadecanoic Acid	PFODA	0.0020	2	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluorodecanoic Acid	PFDA	0.0057	5.7	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-091119-A	OUTLET 006	09/11/2019	Perfluorononanoic Acid	PFNA	0.0089	8.9	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	PFOA	PFOA	0.21	210	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0020	2	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	PFOS	PFOS	0.0050	5	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	Perfluoroundecanoic Acid	PFUnA	0.011	11	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	Perfluoropentanoic Acid	PFPA	0.0088	8.8	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	Perfluorohexanoic Acid	PFHxA	0.010	10	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0061	6.1	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-091119-A	OUTLET 006	09/11/2019	Perfluorotet

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorohexanoic Acid	PFHxA	0.033	33	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.011	11	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorotetradecanoic Acid	PFTeA	0.0084	8.4	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	APFO	APFO	0.33	330	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorotridecanoic Acid	PFTriA	0.013	13	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorooctadecanoic Acid	PFODA	0.0036	3.6	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorodecanoic Acid	PFDA	0.016	16	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	Perfluoroheptanoic Acid	PFHpA	0.029	29	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorononanoic Acid	PFNA	0.024	24	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-1-STORM-102219-A	OUTLET 006	10/22/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	PFOA	PFOA	0.30	300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0060	6	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	PFOS	PFOS	0.0079	7.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluoroundecanoic Acid	PFUnA	0.021	21	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	APFO	APFO	0.31	310	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorotridecanoic Acid	PFTriA	0.019	19	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.020	20	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluoropentanoic Acid	PFPA	0.023	23	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorohexanoic Acid	PFHxA	0.031	31	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0065	6.5	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorotetradecanoic Acid	PFTeA	0.013	13	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorooctadecanoic Acid	PFODA	0.0037	3.7	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorodecanoic Acid	PFDA	0.013	13	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluoroheptanoic Acid	PFHpA	0.029	29	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluorononanoic Acid	PFNA	0.020	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-2-STORM-102219-A	OUTLET 006	10/22/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-3-STORM-102219-A	OUTLET 006	10/22/2019	PFOA	PFOA	0.18	180	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-3-STORM-102219-A	OUTLET 006	10/22/2019	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-4-STORM-102219-A	OUTLET 006	10/22/2019	PFOA	PFOA	0.50	500	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outlet 006-4-STORM-102219-A	OUTLET 006	10/22/2019	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1119-OUTLET 006	OUTLET 006	11/07/2019	PFOA	PFOA	0.14	140	Y	*	J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1119-OUTLET 006	OUTLET 006	11/07/2019	Hfpo Dimer Acid	HFPO-DA	0.64	640	Y	F1	J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1119-OUTLET 006-D	OUTLET 006	11/07/2019	PFOA	PFOA	0.14	140	Y	*	J	Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW1119-OUTLET 006-D	OUTLET 006	11/07/2019	Hfpo Dimer Acid	HFPO-DA	0.68	680	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW1219-OUTLET 006	OUTLET 006	12/12/2019	PFOA	PFOA	0.38	380	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1219-OUTLET 006	OUTLET 006	12/12/2019	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1219-OUTLET 006-D	OUTLET 006	12/12/2019	PFOA	PFOA	0.37	370	Y			LIQUID	DUP	Other liquid	39.264801025	-81.67874908
SW1219-OUTLET 006-D	OUTLET 006	12/12/2019	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			LIQUID	DUP	Other liquid	39.264801025	-81.67874908
SW0120-OUTLET 006	OUTLET 006	01/09/2020	PFOA	PFOA	0.21	210	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0120-OUTLET 006	OUTLET 006	01/09/2020	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0120-OUTLET 006-D	OUTLET 006	01/09/2020	PFOA	PFOA	0.20	200	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0120-OUTLET 006-D	OUTLET 006	01/09/2020	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0220-OUTLET 006	OUTLET 006	02/06/2020	PFOA	PFOA	0.52	520	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0220-OUTLET 006	OUTLET 006	02/06/2020	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0220-OUTLET 006-D	OUTLET 006	02/06/2020	PFOA	PFOA	0.53	530	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0220-OUTLET 006-D	OUTLET 006	02/06/2020	Hfpo Dimer Acid	HFPO-DA	5.1	5100	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006	OUTLET 006	02/06/2020	PFOA	PFOA	0.51	510	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006	OUTLET 006	02/06/2020	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0320-OUTLET 006	OUTLET 006	03/05/2020	PFOA	PFOA	0.47	470	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0320-OUTLET 006	OUTLET 006	03/05/2020	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0320-OUTLET 006-D	OUTLET 006	03/05/2020	PFOA	PFOA	0.46	460	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0320-OUTLET 006-D	OUTLET 006	03/05/2020	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	DONA	DONA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	PFOS	PFOS	0.023	23	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluoroundecanoic Acid	PFUnA	0.012	12	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluorohexanoic Acid	PFHxA	0.021	21	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.014	14	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluorotetradecanoic Acid	PFTeA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluorotridecanoic Acid	PFTriA	0.0049	4.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluorododecanoic Acid	PFDoA	0.0062	6.2	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0028	2.8	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluorodecanoic Acid	PFDA	0.01	10	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluoroheptanoic Acid	PFHpA	0.028	28	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q20-OUTLET 006-A	OUTLET 006	03/05/2020	Perfluorononanoic Acid	PFNA	0.017	17	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0420-OUTLET 006	OUTLET 006	04/02/2020	PFOA	PFOA	0.86	860	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0420-OUTLET 006	OUTLET 006	04/02/2020	Hfpo Dimer Acid	HFPO-DA	67	67000	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0420-OUTLET 006-D	OUTLET 006	04/02/2020	PFOA	PFOA	0.83	830	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0420-OUTLET 006-D	OUTLET 006	04/02/2020	Hfpo Dimer Acid	HFPO-DA	76	76000	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0520-OUTLET 006	OUTLET 006	05/14/2020	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0520-OUTLET 006	OUTLET 006	05/14/2020	Hfpo Dimer Acid	HFPO-DA	7.5	7500	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	PFOS	PFOS	0.014	14	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluoroundecanoic Acid	PFUnA	0.013	13	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluorohexanoic Acid	PFHxA	0.029	29	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0055	5.5	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.0031	3.1	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluorotridecanoic Acid	PFTriA	0.0040	4	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluorododecanoic Acid	PFDoA	0.0068	6.8	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluorodecanoic Acid	PFDA	0.016	16	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluoroheptanoic Acid	PFHpA	0.024	24	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A	OUTLET 006	05/28/2020	Perfluorononanoic Acid	PFNA	0.017	17	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	DONA	DONA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluorohexanoic Acid	PFHxA	0.029	29	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0055	5.5	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.0030	3	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluorotridecanoic Acid	PFTriA	0.0040	4	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	PFOS	PFOS	0.014	14	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluoroundecanoic Acid	PFUnA	0.012	12	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluorododecanoic Acid	PFDoA	0.0071	7.1	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluorodecanoic Acid	PFDA	0.015	15	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluoroheptanoic Acid	PFHpA	0.023	23	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	Perfluorononanoic Acid	PFNA	0.016	16	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW2Q20-OUTLET 006-A-D	OUTLET 006	05/28/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0620-OUTLET 006	OUTLET 006	06/04/2020	PFOA	PFOA	0.32	320	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0620-OUTLET 006	OUTLET 006	06/04/2020	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0620-OUTLET 006-D	OUTLET 006	06/04/2020	PFOA	PFOA	0.31	310	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0620-OUTLET 006-D	OUTLET 006	06/04/2020	Hfpo Dimer Acid	HFPO-DA	3.7	3700	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0720-OUTLET 006	OUTLET 006	07/09/2020	PFOA	PFOA	0.56	560	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0720-OUTLET 006	OUTLET 006	07/09/2020	Hfpo Dimer Acid	HFPO-DA	5.6	5600	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0720-OUTLET 006-D	OUTLET 006	07/09/2020	PFOA	PFOA	0.59	590	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0720-OUTLET 006-D	OUTLET 006	07/09/2020	Hfpo Dimer Acid	HFPO-DA	5.6	5600	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0820-OUTLET 006	OUTLET 006	08/06/2020	PFOA	PFOA	4.3	4300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0820-OUTLET 006	OUTLET 006	08/06/2020	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	PFOS	PFOS	0.39	390	Y		B	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluoroundecanoic Acid	PFUnA	0.0081	8.1	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0068	6.8	Y		B	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluorotridecanoic Acid	PFTriA	0.0022	2.2	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluorododecanoic Acid	PFDoA	0.0034	3.4	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluorodecanoic Acid	PFDA	0.29	290	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A	OUTLET 006	08/13/2020	Perfluorononanoic Acid	PFNA	0.067	67	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	DONA	DONA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluorohexanoic Acid	PFHxA	0.021	21	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0061	6.1	Y		B	Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluorotridecanoic Acid	PFTriA	0.0022	2.2	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	PFOS	PFOS	0.40	400	Y		B	Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluoroundecanoic Acid	PFUnA	0.0091	9.1	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluorododecanoic Acid	PFDoA	0.0034	3.4	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluorodecanoic Acid	PFDA	0.31	310	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	Perfluorononanoic Acid	PFNA	0.068	68	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW3Q20-OUTLET 006-A-D	OUTLET 006	08/13/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0920-OUTLET 006	OUTLET 006	09/17/2020	PFOA	PFOA	0.38	380	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0920-OUTLET 006	OUTLET 006	09/17/2020	Hfpo Dimer Acid	HFPO-DA	18	18000	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0920-OUTLET 006-D	OUTLET 006	09/17/2020	PFOA	PFOA	0.39

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluoropentanoic Acid	PFPA	0.042	42	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluorohexanoic Acid	PFHxA	0.055	55	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.015	15	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluorotetradecanoic Acid	PFTeA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluorotridecanoic Acid	PFTriA	0.0038	3.8	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	PFOS	PFOS	0.015	15	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluoroundecanoic Acid	PFUnA	0.0074	7.4	Y	I	J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluorobutanoic Acid	PFBA	0.041	41	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluorododecanoic Acid	PFDoA	0.0036	3.6	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluorodecanoic Acid	PFDA	0.012	12	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluoroheptanoic Acid	PFHpA	0.043	43	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q21-OUTLET 006-A-012121	OUTLET 006	01/21/2021	Perfluorononanoic Acid	PFNA	0.020	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0221-OUTLET 006-022521	OUTLET 006	02/25/2021	PFOA	PFOA	1.0	1000	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0221-OUTLET 006-022521	OUTLET 006	02/25/2021	Hfpo Dimer Acid	HFPO-DA	4.5	4500	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0321-OUTLET 006-031121	OUTLET 006	03/11/2021	PFOA	PFOA	0.32	320	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0321-OUTLET 006-031121	OUTLET 006	03/11/2021	Hfpo Dimer Acid	HFPO-DA	2.3	2300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	PFOA	PFOA	0.71	710	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0032	3.2	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	PFOS	PFOS	0.020	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluorobutanoic Acid	PFBA	0.056	56	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluoropentanoic Acid	PFPA	0.045	45	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluorohexanoic Acid	PFHxA	0.056	56	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.017	17	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluorotetradecanoic Acid	PFTeA	0.0052	5.2	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluorotridecanoic Acid	PFTriA	0.0073	7.3	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Hfpo Dimer Acid	HFPO-DA	3.2	3200	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluorododecanoic Acid	PFDoA	0.012	12	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluorodecanoic Acid	PFDA	0.024	24	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluoroheptanoic Acid	PFHpA	0.052	52	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q21-OUTLET 006-A-042221	OUTLET 006	04/22/2021	Perfluorononanoic Acid	PFNA	0.031	31	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0521-OUTLET 006	OUTLET 006	05/06/2021	PFOA	PFOA	0.48	480	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0521-OUTLET 006	OUTLET 006	05/06/2021	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0621-OUTLET 006-062421	OUTLET 006	06/24/2021	PFOA	PFOA	0.85	850	Y		J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0621-OUTLET 006-062421	OUTLET 006	06/24/2021	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0821-OUTLET 006-081921	OUTLET 006	08/19/2021	PFOA	PFOA	0.31	310	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0821-OUTLET 006-081921	OUTLET 006	08/19/2021	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	PFOA	PFOA	0.29	290	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0026	2.6	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	PFOS	PFOS	0.029	29	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluoroundecanoic Acid	PFUnA	0.011	11	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluorobutanoic Acid	PFBA	0.039	39	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluoropentanoic Acid	PFPA	0.021	21	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluorohexanoic Acid	PFHxA	0.031	31	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.020	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluorotetradecanoic Acid	PFTeA	0.0039	3.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluorotridecanoic Acid	PFTriA	0.0050	5	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Hfpo Dimer Acid	HFPO-DA	2.2	2200	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluorododecanoic Acid	PFDoA	0.0065	6.5	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluorodecanoic Acid	PFDA	0.016	16	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluoroheptanoic Acid	PFHpA	0.030	30	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q21-OUTLET 006-A-081921	OUTLET 006	08/19/2021	Perfluorononanoic Acid	PFNA	0.018	18	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	PFOA	PFOA	0.49	490	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0031	3.1	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	PFOS	PFOS	0.037	37	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluoroundecanoic Acid	PFUnA	0.011	11	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluorobutanoic Acid	PFBA	0.024	24	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluoropentanoic Acid	PFPA	0.024	24	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluorohexanoic Acid	PFHxA	0.035	35	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.031	31	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluorotetradecanoic Acid	PFTeA	0.0023	2.3	Y		B	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluorotridecanoic Acid	PFTriA	0.0043	4.3	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluorododecanoic Acid	PFDoA	0.0071	7.1	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluorodecanoic Acid	PFDA	0.010	10	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluoroheptanoic Acid	PFHpA	0.034	34	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW1Q22-OUTLET 006-A-022422	OUTLET 006	02/24/2022	Perfluorononanoic Acid	PFNA	0.018	18	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0322-OUTLET 006-030322	OUTLET 006	03/03/2022	PFOA	PFOA	0.54	540	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0322-OUTLET 006-030322	OUTLET 006	03/03/2022	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	PFOA	PFOA	0.46	460	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	DONA	DONA	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluoropentanoic Acid	PFPA	0.035	35	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluorohexanoic Acid	PFHxA	0.044	44	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.019	19	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluorotetradecanoic Acid	PFTeA	0.0044	4.4	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluorotridecanoic Acid	PFTriA	0.0054	5.4	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	PFOS	PFOS	0.029	29	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluoroundecanoic Acid	PFUnA	0.015	15	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluorobutanoic Acid	PFBA	0.031	31	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y	B,*+,cn	J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluorododecanoic Acid	PFDoA	0.0097	9.7	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U,cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluorodecanoic Acid	PFDA	0.017	17	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluoroheptanoic Acid	PFHpA	0.047	47	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q22-OUTLET 006-A	OUTLET 006	04/07/2022	Perfluorononanoic Acid	PFNA	0.028	28	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0522-OUTLET 006-050522	OUTLET 006	05/05/2022	PFOA	PFOA	0.41	410	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0522-OUTLET 006-050522	OUTLET 006	05/05/2022	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0522-OUTLET 006-D-050522	OUTLET 006	05/05/2022	PFOA	PFOA	0.40	400	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0522-OUTLET 006-D-050522	OUTLET 006	05/05/2022	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	DUP	Other liquid	39.264801025	-81.67874908
SW0622-OUTLET 006-060922	OUTLET 006	06/09/2022	PFOA	PFOA	0.59	590	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0622-OUTLET 006-060922	OUTLET 006	06/09/2022	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y	cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	PFOA	PFOA	0.29	290	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0022	2.2	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluoropentanoic Acid	PFPA	0.029	29	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluorohexanoic Acid	PFHxA	0.032	32	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.011	11	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluorotetradecanoic Acid	PFTeA	0.012	12	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluorotridecanoic Acid	PFTriA	0.014	14	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	PFOS	PFOS	0.016	16	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluoroundecanoic Acid	PFUnA	0.025	25	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluorobutanoic Acid	PFBA	0.032	32	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluorododecanoic Acid	PFDoA	0.020	20	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluorodecanoic Acid	PFDA	0.021	21	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluoroheptanoic Acid	PFHpA	0.035	35	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q22-OUTLET 006-A-070722	OUTLET 006	07/07/2022	Perfluorononanoic Acid	PFNA	0.031	31	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW822-OUTLET 006-081122	OUTLET 006	08/11/2022	PFOA	PFOA	0.45	450	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW822-OUTLET 006-081122	OUTLET 006	08/11/2022	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	Perfluorononanesulfonic Acid	PFNS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	PFOA	PFOA	0.69	690	Y		J	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	PFO3OA	PFO3OA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	PPF Acid	PPF Acid	0.053	53	Y	*-,cn	J	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	Perfluoropropanesulfonic Acid	PFPrS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Out

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
Outfall 006-120122	OUTLET 006	12/01/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	Perfluorodecane Sulfonic Acid	PFDS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	PFMOAA	PFMOAA	0.045	45	Y		J	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
Outfall 006-120122	OUTLET 006	12/01/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	PFOA	PFOA	1.58	1580	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	DONA	DONA	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluorobutane Sulfonic Acid	PFBS	0.00305	3.05	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluoropentanoic Acid	PFPA	0.0389	38.9	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluorohexanoic Acid	PFHxA	0.0460	46	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0438	43.8	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluorotetradecanoic Acid	PFTeA	0.00555	5.55	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluorotridecanoic Acid	PFTriA	0.00875	8.75	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	PFOS	PFOS	0.0426	42.6	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluoroundecanoic Acid	PFUnA	0.0221	22.1	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluorobutanoic Acid	PFBA	0.0358	35.8	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Hfpo Dimer Acid	HFPO-DA	2.17	2170	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluorododecanoic Acid	PFDoA	0.0162	16.2	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00704	7.04	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00352	3.52	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluorodecanoic Acid	PFDA	0.0310	31	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluoroheptanoic Acid	PFHpA	0.0569	56.9	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1222-OUTLET 006-120822	OUTLET 006	12/08/2022	Perfluorononanoic Acid	PFNA	0.0661	66.1	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	DONA	DONA	0.00784	7.84	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00196	1.96	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	PFOA	PFOA	0.463	463	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00784	7.84	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluoropentanoic Acid	PFPA	0.0169	16.9	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluorohexanoic Acid	PFHxA	0.0146	14.6	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00639	6.39	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.00196	1.96	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluorotridecanoic Acid	PFTriA	0.00555	5.55	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	PFOS	PFOS	0.0119	11.9	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluoroundecanoic Acid	PFUnA	0.00918	9.18	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluorobutanoic Acid	PFBA	0.0140	14	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Hfpo Dimer Acid	HFPO-DA	1.28	1280	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluorododecanoic Acid	PFDoA	0.00415	4.15	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00196	1.96	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00784	7.84	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00392	3.92	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluorodecanoic Acid	PFDA	0.00787	7.87	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluoroheptanoic Acid	PFHpA	0.0217	21.7	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW1Q23 OUTLET 006A-011223	OUTLET 006	01/12/2023	Perfluorononanoic Acid	PFNA	0.0158	15.8	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0223-OUTLET 006-020923	OUTLET 006	02/09/2023	PFOA	PFOA	1.46	1460	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0223-OUTLET 006-020923	OUTLET 006	02/09/2023	Hfpo Dimer Acid	HFPO-DA	1.81	1810	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorononanesulfonic Acid	PFNS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	PFOA	PFOA	0.944	944	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00690	6.9	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00323	3.23	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	PFECA B	PFECA B	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	DONA	DONA	0.00690	6.9	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0432	43.2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	PFECA-A	PFECA-A	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluoropentanoic Acid	PFPA	0.0526	52.6	Y	I	J	Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorohexanoic Acid	PFHxA	0.0834	83.4	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0263	26.3	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00863	8.63	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.00727	7.27	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorotridecanoic Acid	PFTriA	0.00784	7.84	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0432	43.2	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	PFOS	PFOS	0.0235	23.5	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluoroundecanoic Acid	PFUnA	0.0149	14.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorobutanoic Acid	PFBA	0.800	800	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	PFECA-F	PFECA-F	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Hfpo Dimer Acid	HFPO-DA	2.87	2870	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0173	17.3	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00690	6.9	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorododecanoic Acid	PFDoA	0.00909	9.09	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00690	6.9	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00345	3.45	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0173	17.3	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorodecanoic Acid	PFDA	0.0240	24	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluoroheptanoic Acid	PFHpA	0.0674	67.4	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorononanoic Acid	PFNA	0.0462	46.2	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00248	2.48	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00690	6.9	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0323-OUTLET 006-030223	OUTLET 006	03/02/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00690	6.9	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	PFECA B	PFECA B	0.00357	3.57	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	DONA	DONA	0.00714	7.14	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	PFECA-A	PFECA-A	0.00357	3.57	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0446	44.6	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00357	3.57	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	PFOA	PFOA	1.77	1770	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00714	7.14	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	PFOS	PFOS	0.0165	16.5	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluoroundecanoic Acid	PFUnA	0.0438	43.8	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorobutanoic Acid	PFBA	0.0601	60.1	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	PFECA-F	PFECA-F	0.00357	3.57	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluoropentanoic Acid	PFPA	0.0607	60.7	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorohexanoic Acid	PFHxA	0.152	152	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00869	8.69	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00893	8.93	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00964	9.64	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorotridecanoic Acid	PFTriA	0.0192	19.2	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0446	44.6	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Hfpo Dimer Acid	HFPO-DA	1.69	1690	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0179	17.9	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00714	7.14	N	U,cn		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorododecanoic Acid	PFDoA	0.0225	22.5	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00714	7.14	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00179	1.79	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00714	7.14	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00714	7.14	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00357	3.57	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0179	17.9	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorodecanoic Acid	PFDA	0.0307	30.7	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluoroheptanoic Acid	PFHpA	0.0991	99.1	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW2Q23-OUTLET 006-A-041323	OUTLET 006	04/13/2023	Perfluorononanoic Acid	PFNA	0.0436	43.6	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	Perfluorononanesulfonic Acid	PFNS	0.00173	1.73	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00173	1.73	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00346	3.46	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	PFOA	PFOA	0.494	494	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00691	6.91	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	PFECA-A	PFECA-A	0.00346	3.46	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0432	43.2	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00173	1.73	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	DONA	DONA	0.00691	6.91	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00173	1.73	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00173	1.73	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	PFECA B	PFECA B	0.00346	3.46	N	U		LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	PFOS	PFOS	0.0159	15.9	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	Perfluoroundecanoic Acid	PFUnA	0.0132	13.2	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0523-OUTLET 006-A-050423	OUTLET 006	05/04/2023	Perfluorobutanoic Acid	PFBA	0.0452	45.2	Y			LIQUID	FS	Other liquid	39.264801025	-81.67874908
SW0

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0623-OUTLET 006-A-061523	OUTLET 006	06/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00174	1.74	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0623-OUTLET 006-A-061523	OUTLET 006	06/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW0623-OUTLET 006-A-061523	OUTLET 006	06/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00695	6.95	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00793	7.93	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00793	7.93	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00793	7.93	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0198	19.8	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0198	19.8	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00991	9.91	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0496	49.6	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00793	7.93	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0496	49.6	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00793	7.93	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	DONA	DONA	0.00793	7.93	N	U,cn		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Hfpo Dimer Acid	HFPO-DA	1.23	1230	Y	^2		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00198	1.98	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00198	1.98	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00198	1.98	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00397	3.97	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00397	3.97	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00590	5.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorobutanoic Acid	PFBA	0.0369	36.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00198	1.98	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorodecanoic Acid	PFDA	0.0173	17.3	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00198	1.98	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorododecanoic Acid	PFDoA	0.00585	5.85	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00198	1.98	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluoroheptanoic Acid	PFHpA	0.0429	42.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0595	59.5	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorohexanoic Acid	PFHxA	0.0525	52.5	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorononanesulfonic Acid	PFNS	0.00198	1.98	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorononanoic Acid	PFNA	0.0389	38.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorooctane Sulfonamide	PFOSA	0.00198	1.98	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00616	6.16	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluoropentanoic Acid	PFPA	0.0697	69.7	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.00301	3.01	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluorotridecanoic Acid	PFTriA	0.00398	3.98	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	Perfluoroundecanoic Acid	PFUnA	0.0107	10.7	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	PFECA B	PFECA B	0.00397	3.97	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	PFECA-A	PFECA-A	0.00397	3.97	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	PFECA-F	PFECA-F	0.00397	3.97	N	U		Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	PFOA	PFOA	0.374	374	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
SW3Q23 OUTLET 006-072023	OUTLET 006	07/20/2023	PFOS	PFOS	0.0549	54.9	Y			Liquid	FS	Other liquid	39.264801025	-81.67874908
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorobutane Sulfonic Acid	PFBS	0.0027	2.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00093	0.93	N	U	UJ	Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0081	8.1	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorononanesulfonic Acid	PFNS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0081	8.1	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00093	0.93	N	U	UJ	Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFOS	PFOS	0.003	3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluoroundecanoic Acid	PFUnA	0.016	16	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorobutanoic Acid	PFBA	0.017	17	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	NaDONA	NaDONA	0.00093	0.93	N	U	UJ	Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorododecanoic Acid	PFDoA	0.014	14	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0009	0.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluoropentanoic Acid	PFPA	0.019	19	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorohexanoic Acid	PFHxA	0.024	24	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.0053	5.3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorotetradecanoic Acid	PFTeA	0.0067	6.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorotridecanoic Acid	PFTriA	0.0097	9.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorooctane Sulfonamide	PFOSA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorooctadecanoic Acid	PFODA	0.0019	1.9	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorodecanoic Acid	PFDA	0.021	21	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluoroheptanoic Acid	PFHpA	0.027	27	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorononanoic Acid	PFNA	0.022	22	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0081	8.1	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	Perfluorodecane Sulfonic Acid	PFDS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
Outfall007-082118-2	OUTLET 007	08/21/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0818-OUTLET 007-2	OUTLET 007	08/22/2018	PFOA	PFOA	0.23	230	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0818-OUTLET 007-2	OUTLET 007	08/22/2018	Hfpo Dimer Acid	HFPO-DA	0.37	370	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0818-OUTLET 007-2	OUTLET 007	08/22/2018	APFO	APFO	0.24	240	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0818-OUTLET 007-D-2	OUTLET 007	08/22/2018	PFOA	PFOA	0.24	240	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0818-OUTLET 007-D-2	OUTLET 007	08/22/2018	APFO	APFO	0.25	250	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0818-OUTLET 007-D-2	OUTLET 007	08/22/2018	Hfpo Dimer Acid	HFPO-DA	0.39	390	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0918-OUTLET 007	OUTLET 007	09/13/2018	PFOA	PFOA	0.73	730	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0918-OUTLET 007	OUTLET 007	09/13/2018	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PFOA	PFOA	0.086	86	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.003	3	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.015	15	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00047	0.47	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.015	15	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00062	0.62	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.002	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	Y	J	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluoropentanoic Acid	PFPA	0.01	10	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorohexanoic Acid	PFHxA	0.0038	3.8	Y	J	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.0027	2.7	Y	J	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PFOS	PFOS	0.0028	2.8	Y	J	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.002	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorobutanoic Acid	PFBA	0.01	10	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	NaDONA	NaDONA	0.00047	0.47	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Hfpo Dimer Acid	HFPO-DA	0.041	41	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.006	6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.005	5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.01	10	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.005	5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.005	5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorodecanoic Acid	PFDA	0.0045	4.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.0033	3.3	Y	J	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918	OUTLET 007	09/20/2018	Perfluorononanoic Acid	PFNA	0.002	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
OUTF

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00092	0.92	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.00046	0.46	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00092	0.92	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.00092	0.92	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	Perfluorodecanoic Acid	PFDA	0.0011	1.1	Y	J	J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.0028	2.8	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	Perfluorononanoic Acid	PFNA	0.0012	1.2	Y	J	J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
OUTFALL_007-0918-D	OUTLET 007	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1018-OUTLET 007	OUTLET 007	10/11/2018	PFOA	PFOA	0.23	230	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1018-OUTLET 007	OUTLET 007	10/11/2018	Hfpo Dimer Acid	HFPO-DA	1.0	1000	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1118-OUTLET 007	OUTLET 007	11/15/2018	PFOA	PFOA	0.91	910	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1118-OUTLET 007	OUTLET 007	11/15/2018	Hfpo Dimer Acid	HFPO-DA	8.6	8600	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1118-OUTLET 007-1	OUTLET 007	11/29/2018	PFOA	PFOA	0.13	130	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1118-OUTLET 007-1	OUTLET 007	11/29/2018	Hfpo Dimer Acid	HFPO-DA	0.030	30	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1218-OUTLET 007	OUTLET 007	12/06/2018	PFOA	PFOA	0.16	160	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1218-OUTLET 007	OUTLET 007	12/06/2018	Hfpo Dimer Acid	HFPO-DA	0.044	44	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW119-OUTLET 007	OUTLET 007	01/17/2019	PFOA	PFOA	0.22	220	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW119-OUTLET 007	OUTLET 007	01/17/2019	Hfpo Dimer Acid	HFPO-DA	7.3	7300	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW119-OUTLET 007-D	OUTLET 007	01/17/2019	PFOA	PFOA	0.22	220	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW119-OUTLET 007-D	OUTLET 007	01/17/2019	Hfpo Dimer Acid	HFPO-DA	7.3	7300	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW219-OUTLET 007	OUTLET 007	02/14/2019	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW219-OUTLET 007	OUTLET 007	02/14/2019	Hfpo Dimer Acid	HFPO-DA	0.076	76	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW319-OUTLET 007	OUTLET 007	03/07/2019	PFOA	PFOA	0.26	260	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW319-OUTLET 007	OUTLET 007	03/07/2019	Hfpo Dimer Acid	HFPO-DA	0.16	160	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW419-OUTLET 007	OUTLET 007	04/04/2019	PFOA	PFOA	0.083	83	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW419-OUTLET 007	OUTLET 007	04/04/2019	Hfpo Dimer Acid	HFPO-DA	0.035	35	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW419-OUTLET 007-D	OUTLET 007	04/04/2019	PFOA	PFOA	0.091	91	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW419-OUTLET 007-D	OUTLET 007	04/04/2019	Hfpo Dimer Acid	HFPO-DA	0.034	34	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW519-OUTLET 007	OUTLET 007	05/02/2019	PFOA	PFOA	0.047	47	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW519-OUTLET 007	OUTLET 007	05/02/2019	Hfpo Dimer Acid	HFPO-DA	0.040	40	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.00096	0.96	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0013	1.3	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	DONA	DONA	0.00096	0.96	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluorohexanoic Acid	PFHxA	0.0051	5.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0027	2.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluorotetradecanoic Acid	PFTeA	0.00096	0.96	N	<	UJ	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluorotridecanoic Acid	PFTriA	0.00096	0.96	N	<	UJ	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	PFOS	PFOS	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluoroundecanoic Acid	PFUnA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0029	2.9	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluorododecanoic Acid	PFDoA	0.0029	2.9	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0029	2.9	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluorodecanoic Acid	PFDA	0.0027	2.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluoroheptanoic Acid	PFHpA	0.0042	4.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q19-OUTLET 007-A	OUTLET 007	06/06/2019	Perfluorononanoic Acid	PFNA	0.0025	2.5	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW619-OUTLET 007	OUTLET 007	06/06/2019	PFOA	PFOA	0.10	100	Y	H		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW619-OUTLET 007	OUTLET 007	06/06/2019	Hfpo Dimer Acid	HFPO-DA	0.084	84	Y	H	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW719-OUTLET 007	OUTLET 007	07/02/2019	PFOA	PFOA	0.084	84	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW719-OUTLET 007	OUTLET 007	07/02/2019	Hfpo Dimer Acid	HFPO-DA	0.072	72	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW819-OUTLET 007	OUTLET 007	08/01/2019	PFOA	PFOA	0.27	270	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW819-OUTLET 007	OUTLET 007	08/01/2019	Hfpo Dimer Acid	HFPO-DA	0.11	110	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007	OUTLET 007	09/12/2019	PFOA	PFOA	0.32	320	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007	OUTLET 007	09/12/2019	Hfpo Dimer Acid	HFPO-DA	0.13	130	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0031	3.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	DONA	DONA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluorohexanoic Acid	PFHxA	0.026	26	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0027	2.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluorotetradecanoic Acid	PFTeA	0.0057	5.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluorotridecanoic Acid	PFTriA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	PFOS	PFOS	0.0028	2.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluoroundecanoic Acid	PFUnA	0.0052	5.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluorododecanoic Acid	PFDoA	0.014	14	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0028	2.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluorodecanoic Acid	PFDA	0.033	33	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluoroheptanoic Acid	PFHpA	0.032	32	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A	OUTLET 007	09/12/2019	Perfluorononanoic Acid	PFNA	0.02	20	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	DONA	DONA	0.0019	1.9	N	<		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0032	3.2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	<		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	PFOS	PFOS	0.003	3	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluoroundecanoic Acid	PFUnA	0.0062	6.2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluorohexanoic Acid	PFHxA	0.026	26	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0028	2.8	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluorotetradecanoic Acid	PFTeA	0.0057	5.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluorotridecanoic Acid	PFTriA	0.0029	2.9	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0029	2.9	N	<		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	<		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluorododecanoic Acid	PFDoA	0.014	14	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	<		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluorodecanoic Acid	PFDA	0.035	35	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluoroheptanoic Acid	PFHpA	0.03	30	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q19-OUTLET 007-A-D	OUTLET 007	09/12/2019	Perfluorononanoic Acid	PFNA	0.021	21	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW919-OUTLET 007	OUTLET 007	09/25/2019	PFOA	PFOA	0.16	160	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW919-OUTLET 007	OUTLET 007	09/25/2019	Hfpo Dimer Acid	HFPO-DA	0.10	100	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1019-OUTLET 007	OUTLET 007	10/10/2019	PFOA	PFOA	0.081	81	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1019-OUTLET 007	OUTLET 007	10/10/2019	Hfpo Dimer Acid	HFPO-DA	0.076	76	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1119-OUTLET 007	OUTLET 007	11/07/2019	PFOA	PFOA	0.21	210	Y	*	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1119-OUTLET 007	OUTLET 007	11/07/2019	Hfpo Dimer Acid	HFPO-DA	0.10	100	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1119-OUTLET 007-D	OUTLET 007	11/07/2019	PFOA	PFOA	0.19	190	Y	*	J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1119-OUTLET 007-D	OUTLET 007	11/07/2019	Hfpo Dimer Acid	HFPO-DA	0.10	100	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1219-OUTLET 007	OUTLET 007	12/12/2019	PFOA	PFOA	0.22	220	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1219-OUTLET 007	OUTLET 007	12/12/2019	Hfpo Dimer Acid	HFPO-DA	0.14	140	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0120-OUTLET 007	OUTLET 007	01/09/2020	PFOA	PFOA	0.14	140	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0120-OUTLET 007	OUTLET 007	01/09/2020	Hfpo Dimer Acid	HFPO-DA	0.055	55	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0220-OUTLET 007	OUTLET 007	02/06/2020	PFOA	PFOA	0.21	210	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0220-OUTLET 007	OUTLET 007	02/06/2020	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007	OUTLET 007	02/06/2020	PFOA	PFOA	0.23	230	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007	OUTLET 007	02/06/2020	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-D	OUTLET 007	02/06/2020	PFOA	PFOA	0.22	220	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-D	OUTLET 007	02/06/2020	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0320-OUTLET 007	OUTLET 007	03/05/2020	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0320-OUTLET 007	OUTLET 007	03/05/2020	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	DONA	DONA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluorohexanoic Acid	PFHxA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0027	2.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	PFOS	PFOS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluoroundecanoic Acid	PFUnA	0.002	2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluoroheptanoic Acid	PFHpA	0.0032	3.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q20-OUTLET 007-A	OUTLET 007	03/05/2020	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0420-OUTLET 007	OUTLET 007	04/02/2020	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0420-OUTLET 007	OUTLET 007	04/02/2020	Hfpo Dimer Acid	HFPO-DA	0.77	770	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0520-OUTLET 007	OUTLET 007	05/14/2020	PFOA	PFOA	0.030	30	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0520-OUTLET 007	OUTLET 007	05/14/2020	Hfpo Dimer Acid	HFPO-DA	0.56	560	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0520-OUTLET 007-D	OUTLET 007	05/14/2020	PFOA	PFOA	0.030	30	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0520-OUTLET 007-D	OUTLET 007	05/14/2020	Hfpo Dimer Acid	HFPO-DA	0.55	550	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluorohexanoic Acid	PFHxA	1.8	1800	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.027	27	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluorotridecanoic Acid	PFTriA	0.025	25	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	PFOS	PFOS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluoroundecanoic Acid	PFUnA	0.047	47	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluorododecanoic Acid	PFDoA	0.046	46	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluorodecanoic Acid	PFDA	0.16	160	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluoroheptanoic Acid	PFHpA	0.17	170	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q20-OUTLET 007-A	OUTLET 007	05/28/2020	Perfluorononanoic Acid	PFNA	0.098	98	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0620-OUTLET 007	OUTLET 007	06/04/2020	PFOA	PFOA	0.26	260	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0620-OUTLET 007	OUTLET 007	06/04/2020	Hfpo Dimer Acid	HFPO-DA	1.9	1900	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0720-OUTLET 007	OUTLET 007	07/09/2020	PFOA	PFOA	0.042	42	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0720-OUTLET 007	OUTLET 007	07/09/2020	Hfpo Dimer Acid

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1220-OUTLET 007-D 121020	OUTLET 007	12/10/2020	Hfpo Dimer Acid	HFPO-DA	0.10	100	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0121-OUTLET 007-012121	OUTLET 007	01/21/2021	PFOA	PFOA	0.14	140	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0121-OUTLET 007-012121	OUTLET 007	01/21/2021	Hfpo Dimer Acid	HFPO-DA	0.25	250	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0062	6.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	PFOA	PFOA	0.14	140	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluoropentanoic Acid	PFPA	0.0043	4.3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluorohexanoic Acid	PFHxA	0.0094	9.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0055	5.5	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluorotetradecanoic Acid	PFTeA	0.0074	7.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluorotridecanoic Acid	PFTriA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	PFOS	PFOS	0.0025	2.5	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluoroundecanoic Acid	PFUnA	0.0037	3.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluorobutanoic Acid	PFBA	0.0060	6	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Hfpo Dimer Acid	HFPO-DA	0.24	240	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluorododecanoic Acid	PFDoA	0.0090	9	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluorodecanoic Acid	PFDA	0.0072	7.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluoroheptanoic Acid	PFHpA	0.0061	6.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET 007-A-012121	OUTLET 007	01/21/2021	Perfluorononanoic Acid	PFNA	0.0038	3.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	PFOA	PFOA	0.15	150	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0058	5.8	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	PFOS	PFOS	0.0034	3.4	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluoroundecanoic Acid	PFUnA	0.0035	3.5	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluorobutanoic Acid	PFBA	0.0061	6.1	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluoropentanoic Acid	PFPA	0.0044	4.4	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluorohexanoic Acid	PFHxA	0.010	10	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0060	6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluorotetradecanoic Acid	PFTeA	0.0069	6.9	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluorotridecanoic Acid	PFTriA	0.0028	2.8	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Hfpo Dimer Acid	HFPO-DA	0.26	260	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluorododecanoic Acid	PFDoA	0.0087	8.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluorodecanoic Acid	PFDA	0.0073	7.3	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluoroheptanoic Acid	PFHpA	0.0073	7.3	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q21-OUTLET_007-A-D-012121	OUTLET 007	01/21/2021	Perfluorononanoic Acid	PFNA	0.0034	3.4	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0221-OUTLET 007-021121	OUTLET 007	02/11/2021	PFOA	PFOA	0.17	170	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0221-OUTLET 007-021121	OUTLET 007	02/11/2021	Hfpo Dimer Acid	HFPO-DA	0.48	480	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0221-OUTLET 007-D-021121	OUTLET 007	02/11/2021	PFOA	PFOA	0.16	160	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0221-OUTLET 007-D-021121	OUTLET 007	02/11/2021	Hfpo Dimer Acid	HFPO-DA	0.53	530	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0321-OUTLET 007-031121	OUTLET 007	03/11/2021	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0321-OUTLET 007-031121	OUTLET 007	03/11/2021	Hfpo Dimer Acid	HFPO-DA	0.039	39	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0321-OUTLET-007-D-031121	OUTLET 007	03/11/2021	PFOA	PFOA	0.12	120	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0321-OUTLET-007-D-031121	OUTLET 007	03/11/2021	Hfpo Dimer Acid	HFPO-DA	0.045	45	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	PFOA	PFOA	0.12	120	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluoropentanoic Acid	PFPA	0.0076	7.6	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluorohexanoic Acid	PFHxA	0.015	15	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0031	3.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	PFOS	PFOS	0.0022	2.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluoroundecanoic Acid	PFUnA	0.0021	2.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluorobutanoic Acid	PFBA	0.0058	5.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Hfpo Dimer Acid	HFPO-DA	0.18	180	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluorododecanoic Acid	PFDoA	0.0022	2.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluorodecanoic Acid	PFDA	0.0057	5.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluoroheptanoic Acid	PFHpA	0.0091	9.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A	OUTLET 007	04/08/2021	Perfluorononanoic Acid	PFNA	0.0043	4.3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	PFOA	PFOA	0.12	120	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	PFOS	PFOS	0.0021	2.1	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluoroundecanoic Acid	PFUnA	0.0020	2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluorobutanoic Acid	PFBA	0.0058	5.8	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluoropentanoic Acid	PFPA	0.0073	7.3	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluorohexanoic Acid	PFHxA	0.014	14	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0030	3	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Hfpo Dimer Acid	HFPO-DA	0.17	170	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluorodecanoic Acid	PFDA	0.0053	5.3	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluoroheptanoic Acid	PFHpA	0.0087	8.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q21-OUTLET 007-A-D	OUTLET 007	04/08/2021	Perfluorononanoic Acid	PFNA	0.0041	4.1	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0521-OUTLET 007	OUTLET 007	05/06/2021	PFOA	PFOA	0.60	600	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0521-OUTLET 007	OUTLET 007	05/06/2021	Hfpo Dimer Acid	HFPO-DA	0.93	930	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0521-OUTLET 007-D	OUTLET 007	05/06/2021	PFOA	PFOA	0.62	620	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0521-OUTLET 007-D	OUTLET 007	05/06/2021	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0621-OUTLET 007-061721	OUTLET 007	06/17/2021	PFOA	PFOA	0.068	68	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0621-OUTLET 007-061721	OUTLET 007	06/17/2021	Hfpo Dimer Acid	HFPO-DA	0.074	74	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0621-OUTLET 007-D-061721	OUTLET 007	06/17/2021	PFOA	PFOA	0.069	69	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0621-OUTLET 007-D-061721	OUTLET 007	06/17/2021	Hfpo Dimer Acid	HFPO-DA	0.072	72	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0043	4.3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	PFOA	PFOA	0.29	290	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluoropentanoic Acid	PFPA	0.0070	7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluorohexanoic Acid	PFHxA	0.020	20	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0053	5.3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluorotetradecanoic Acid	PFTeA	0.017	17	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluorotridecanoic Acid	PFTriA	0.0058	5.8	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	PFOS	PFOS	0.0042	4.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluoroundecanoic Acid	PFUnA	0.0045	4.5	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluorobutanoic Acid	PFBA	0.011	11	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluorododecanoic Acid	PFDoA	0.010	10	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluorodecanoic Acid	PFDA	0.0096	9.6	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluoroheptanoic Acid	PFHpA	0.0096	9.6	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-071521	OUTLET 007	07/15/2021	Perfluorononanoic Acid	PFNA	0.0052	5.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	PFOA	PFOA	0.28	280	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0040	4	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	PFOS	PFOS	0.0043	4.3	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluoroundecanoic Acid	PFUnA	0.0052	5.2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluorobutanoic Acid	PFBA	0.011	11	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluoropentanoic Acid	PFPA	0.0082	8.2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluorohexanoic Acid	PFHxA	0.019	19	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0053	5.3	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluorotetradecanoic Acid	PFTeA	0.023	23	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluorotridecanoic Acid	PFTriA	0.0084	8.4	Y		J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluorododecanoic Acid	PFDoA	0.012	12	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluorodecanoic Acid	PFDA	0.012	12	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluoroheptanoic Acid	PFHpA	0.012	12	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q21-OUTLET 007-A-D-071521	OUTLET 007	07/15/2021	Perfluorononanoic Acid	PFNA	0.0052	5.2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0821-OUTLET 007-080521	OUTLET 007	08/05/2021	PFOA	PFOA	0.15	150	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0821-OUTLET 007-080521	OUTLET 007	08/05/2021	Hfpo Dimer Acid	HFPO-DA	0.19	190	Y	F3	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0821-OUTLET 007-D-080521	OUTLET 007	08/05/2021	PFOA	PFOA	0.15	150	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0821-OUTLET 007-D-080521	OUTLET 007	08/05/2021	Hfpo Dimer Acid	HFPO-DA	0.11	110	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0921-OUTLET 007-090921	OUTLET 007	09/09/2021	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0921-OUTLET 007-090921	OUTLET 007	09/09/2021	Hfpo Dimer Acid	HFPO-DA	4.3	4300	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0921-OUTLET 007-D-090921	OUTLET 007	09/09/2021	PFOA	PFOA	0.19	190	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0921-OUTLET

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	PFOS	PFOS	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U,cn		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U,cn		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	Hfpo Dimer Acid	HFPO-DA	0.032	32	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	Perfluorodecanoic Acid	PFDA	0.0021	2.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	Perfluoroheptanoic Acid	PFHpA	0.0022	2.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-011322	OUTLET 007	01/13/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	PFOA	PFOA	0.052	52	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	PFOS	PFOS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluoropentanoic Acid	PFPA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluorohexanoic Acid	PFHxA	0.0026	2.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluorotetradecanoic Acid	PFTeA	0.0026	2.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Hfpo Dimer Acid	HFPO-DA	0.030	30	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluorodecanoic Acid	PFDA	0.0022	2.2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluoroheptanoic Acid	PFHpA	0.0022	2.2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1Q22-OUTLET 007-A-D-011322	OUTLET 007	01/13/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0222-OUTLET 007 021022	OUTLET 007	02/10/2022	PFOA	PFOA	0.065	65	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0222-OUTLET 007 021022	OUTLET 007	02/10/2022	Hfpo Dimer Acid	HFPO-DA	0.31	310	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0222-OUTLET 007-D 021022	OUTLET 007	02/10/2022	PFOA	PFOA	0.065	65	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0222-OUTLET 007-D 021022	OUTLET 007	02/10/2022	Hfpo Dimer Acid	HFPO-DA	0.34	340	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	PFOA	PFOA	0.053	53	Y		J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluoropentanoic Acid	PFPA	0.0057	5.7	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluorohexanoic Acid	PFHxA	0.022	22	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0023	2.3	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0024	2.4	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluorobutanoic Acid	PFBA	0.0074	7.4	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Hfpo Dimer Acid	HFPO-DA	0.027	27	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluorododecanoic Acid	PFDoA	0.0039	3.9	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluorodecanoic Acid	PFDA	0.016	16	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0052	5.2	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A	OUTLET 007	02/16/2022	Perfluorononanoic Acid	PFNA	0.0039	3.9	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	PFOA	PFOA	0.061	61	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	PFOS	PFOS	0.0018	1.8	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0025	2.5	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluorobutanoic Acid	PFBA	0.0058	5.8	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluoropentanoic Acid	PFPA	0.0042	4.2	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluorohexanoic Acid	PFHxA	0.017	17	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Hfpo Dimer Acid	HFPO-DA	0.026	26	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluorododecanoic Acid	PFDoA	0.0029	2.9	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluorodecanoic Acid	PFDA	0.016	16	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0047	4.7	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	Perfluorononanoic Acid	PFNA	0.0043	4.3	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV0222-OUTLET 007-A-D	OUTLET 007	02/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
SW0322-OUTLET 007-030322	OUTLET 007	03/03/2022	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0322-OUTLET 007-030322	OUTLET 007	03/03/2022	Hfpo Dimer Acid	HFPO-DA	0.17	170	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0322-OUTLET 007-D-030322	OUTLET 007	03/03/2022	PFOA	PFOA	0.11	110	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0322-OUTLET 007-D-030322	OUTLET 007	03/03/2022	Hfpo Dimer Acid	HFPO-DA	0.14	140	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	PFOA	PFOA	0.046	46	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluoropentanoic Acid	PFPA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluorobutanoic Acid	PFBA	0.0044	4.4	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Hfpo Dimer Acid	HFPO-DA	0.031	31	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0322-OUTLET 007-A	OUTLET 007	03/16/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	PFOA	PFOA	0.046	46	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluoropentanoic Acid	PFPA	0.0018	1.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluorohexanoic Acid	PFHxA	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluorotetradecanoic Acid	PFTeA	0.0051	5.1	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluorotridecanoic Acid	PFTriA	0.0057	5.7	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	PFOS	PFOS	0.0017	1.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluoroundecanoic Acid	PFUnA	0.0037	3.7	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluorobutanoic Acid	PFBA	0.0044	4.4	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Hfpo Dimer Acid	HFPO-DA	0.068	68	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluorododecanoic Acid	PFDoA	0.0054	5.4	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluorodecanoic Acid	PFDA	0.0028	2.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluoroheptanoic Acid	PFHpA	0.0024	2.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-041422	OUTLET 007	04/14/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	PFOA	PFOA	0.047	47	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	PFOS	PFOS	0.0018	1.8	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluoroundecanoic Acid	PFUnA	0.0031	3.1	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluoropentanoic Acid	PFPA	0.0017	1.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluorohexanoic Acid	PFHxA	0.0039	3.9	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluorotetradecanoic Acid	PFTeA	0.0023	2.3	Y		J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluorotridecanoic Acid	PFTriA	0.0038	3.8	Y		J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Hfpo Dimer Acid	HFPO-DA	0.068	68	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluorododecanoic Acid	PFDoA	0.0031	3.1	Y		J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluorodecanoic Acid	PFDA	0.0024	2.4	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluoroheptanoic Acid	PFHpA	0.0022	2.2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q22-OUTLET 007-A-D-041422	OUTLET 007	04/14/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0522-OUTLET 007-050522	OUTLET 007	05/05/2022	PFOA	PFOA	0.054	54	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0522-OUTLET 007-050522	OUTLET 007	05/05/2022	Hfpo Dimer Acid	HFPO-DA	0.87	870	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
OHRV0422-OUTLET 007-A	OUTLET 007	05/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0422-OUTLET 007-A	OUTLET 007	05/11/2022	DONA	DONA	0.0016	1.6	N	U,cn		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV0422-OUTLET 007-A	OUTLET 007	05/11/2022	PFOA	PFO

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
OHRV-063022-OUTLET 007-A	Outlet 007	06/30/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0028	2.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	PFOA	PFOA	0.035	35	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluoropentanoic Acid	PFPA	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluorohexanoic Acid	PFHxA	0.0052	5.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	PFOS	PFOS	0.0036	3.6	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluoroundecanoic Acid	PFUnA	0.0021	2.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluorobutanoic Acid	PFBA	0.0044	4.4	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Hfpo Dimer Acid	HFPO-DA	0.11	110	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluorodecanoic Acid	PFDA	0.0038	3.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluoroheptanoic Acid	PFHpA	0.0035	3.5	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-070722	OUTLET 007	07/07/2022	Perfluorononanoic Acid	PFNA	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	PFOA	PFOA	0.037	37	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0026	2.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	PFOS	PFOS	0.0037	3.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluoroundecanoic Acid	PFUnA	0.0027	2.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluoropentanoic Acid	PFPA	0.0035	3.5	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluorohexanoic Acid	PFHxA	0.0046	4.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Hfpo Dimer Acid	HFPO-DA	0.11	110	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluorododecanoic Acid	PFDoA	0.0021	2.1	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluorodecanoic Acid	PFDA	0.0042	4.2	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluoroheptanoic Acid	PFHpA	0.0037	3.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q22-OUTLET 007-A-D-070722	OUTLET 007	07/07/2022	Perfluorononanoic Acid	PFNA	0.0034	3.4	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0822-OUTLET 007-080422	OUTLET 007	08/04/2022	PFOA	PFOA	0.031	31	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
SW0822-OUTLET 007-080422	OUTLET 007	08/04/2022	Hfpo Dimer Acid	HFPO-DA	0.058	58	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
SW0822-OUTLET 007-080422-D	OUTLET 007	08/04/2022	PFOA	PFOA	0.033	33	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
SW0822-OUTLET 007-080422-D	OUTLET 007	08/04/2022	Hfpo Dimer Acid	HFPO-DA	0.053	53	Y			LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0043	4.3	Y			LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	PFOA	PFOA	0.034	34	Y			LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluoropentanoic Acid	PFPA	0.0044	4.4	Y			LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluorohexanoic Acid	PFHxA	0.0098	9.8	Y			LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	PFOS	PFOS	0.0049	4.9	Y			LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Hfpo Dimer Acid	HFPO-DA	0.019	19	Y			LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	Y			LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluoroheptanoic Acid	PFHpA	0.0028	2.8	Y			LIQUID	FS	other liquid	39.27135849	-81.6735992
OHRV-0822-OUTLET 007-A	outlet 007	08/17/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	Y			LIQUID	FS	other liquid	39.27135849	-81.6735992
SW0922-OUTLET 007-090822	OUTLET 007	09/08/2022	PFOA	PFOA	0.020	20	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0922-OUTLET 007-090822	OUTLET 007	09/08/2022	Hfpo Dimer Acid	HFPO-DA	0.067	67	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0922-OUTLET 007-D	OUTLET 007	09/08/2022	PFOA	PFOA	0.021	21	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0922-OUTLET 007-D	OUTLET 007	09/08/2022	Hfpo Dimer Acid	HFPO-DA	0.066	66	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0048	4.8	Y			LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	PFOA	PFOA	0.025	25	Y			LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	PFOS	PFOS	0.0044	4.4	Y	I	J	LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluoropentanoic Acid	PFPA	0.0049	4.9	Y			LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluorohexanoic Acid	PFHxA	0.0040	4	Y			LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Hfpo Dimer Acid	HFPO-DA	0.0076	7.6	Y			LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	Y			LIQUID	FS	Surface Water	39.27135849	-81.6735992
OHRV-0922-OUTLET 007-A	OUTLET 007	09/28/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	PFOA	PFOA	0.033	33	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0031	3.1	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluoropentanoic Acid	PFPA	0.0038	3.8	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluorohexanoic Acid	PFHxA	0.012	12	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluorotetradecanoic Acid	PFTeA	0.0037	3.7	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	PFOS	PFOS	0.0019	1.9	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Hfpo Dimer Acid	HFPO-DA	0.021	21	Y	F1	J	LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluorododecanoic Acid	PFDoA	0.0036	3.6	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluorodecanoic Acid	PFDA	0.0040	4	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluoroheptanoic Acid	PFHpA	0.0021	2.1	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-100622	OUTLET 007	10/06/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0033	3.3	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	PFOA	PFOA	0.030	30	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	PFOS	PFOS	0.0020	2	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluorobutanoic Acid	PFBA	0.0044	4.4	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluoropentanoic Acid	PFPA	0.0038	3.8	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluorohexanoic Acid	PFHxA	0.012	12	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluorotetradecanoic Acid	PFTeA	0.0039	3.9	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Hfpo Dimer Acid	HFPO-DA	0.022	22	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluorododecanoic Acid	PFDoA	0.0026	2.6	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluorodecanoic Acid	PFDA	0.0035	3.5	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluoroheptanoic Acid	PFHpA	0.0023	2.3	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q22-OUTLET 007-A-D-100622	OUTLET 007	10/06/2022	Perfluorononanoic Acid	PFNA	0.0019	1.9	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0028	2.8	Y		J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	PFOA	PFOA	0.0070	7	Y		J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluoropentanoic Acid	PFPA	0.0018	1.8	Y		J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluorohexanoic Acid	PFHxA	0.0034	3.4	Y		J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	PFOS	PFOS	0.0022	2.2	Y	I	J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluorobutanoic Acid	PFBA	0.0041	4.1	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	PFOS	PFOS	0.0022	2.2	Y	I	J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1122-OUTLET 007-A	Outlet 007	11/02/2022	Perfluorobutanoic

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
Outfall 007-120122	OUTLET 007	12/01/2022	EVE Acid	EVE Acid	0.0095	9.5	N	U,F2,F1,*-	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0029	2.9	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	NVHOS, Acid Form	NVHOS, Acid Form	0.0019	1.9	N	U,F1	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	PMPA	PMPA	0.0019	1.9	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	Perfluorooctadecanoic Acid	PFODA	0.0029	2.9	N	U,F2,F1	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	Hydrolyzed PSDA	Hydrolyzed PSDA	0.0019	1.9	N	U,F1	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0029	2.9	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	Perfluorodecanoic Acid	PFDA	0.0068	6.8	Y		J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	Perfluoroheptanoic Acid	PFHpA	0.0077	7.7	Y		J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	Perfluorononanoic Acid	PFNA	0.0019	1.9	Y		J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	PFO4DA	PFO4DA	0.0019	1.9	N	U,*-	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	PFO5DA	PFO5DA	0.0048	4.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	2-Perfluorohexylethanoic Acid	6:2 FTCA	0.0019	1.9	N	U,F1,*-	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	Hydro-EVE Acid	Hydro-EVE Acid	0.0019	1.9	N	U,*-	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0048	4.8	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0019	1.9	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0029	2.9	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	Perfluorodecane Sulfonic Acid	PFDS	0.0019	1.9	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	PFMOAA	PFMOAA	0.0019	1.9	N	U,F1	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0019	1.9	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122	OUTLET 007	12/01/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U	UJ	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0026	2.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorononanesulfonic Acid	PFNS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFOA	PFOA	0.059	59	Y		J	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFO3OA	PFO3OA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PPF Acid	PPF Acid	0.0044	4.4	N	U,*-,cn	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluoropropanesulfonic Acid	PFPrS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0026	2.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0044	4.4	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Hydro-PS Acid	Hydro-PS Acid	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	2-Perfluorodecylethanoic Acid	10:2 FTCA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFECA-A	PFECA-A	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	R-PSDCA	R-PSDCA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	R-PSDA	R-PSDA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFECA B	PFECA B	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PEPA	PEPA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluoropentanoic Acid	PFPA	0.0032	3.2	Y		J	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PS Acid	PS Acid	0.0088	8.8	N	U,*-,cn	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorobutylsulphonamide	FBSA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorohexanoic Acid	PFHxA	0.015	15	Y		J	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	Y		J	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorooctane Sulfonamide	PFOSA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	R-EVE	R-EVE	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorobutanoic Acid	PFBA	0.0048	4.8	Y		J	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFECA-F	PFECA-F	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFO2HxA	PFO2HxA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFECA-G	PFECA-G	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	MTP	MTP	0.0044	4.4	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Hfpo Dimer Acid	HFPO-DA	0.064	64	Y		J	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0026	2.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0044	4.4	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0026	2.6	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	NVHOS, Acid Form	NVHOS, Acid Form	0.0019	1.9	N	U,F1	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0044	4.4	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0018	1.8	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorodecane Sulfonic Acid	PFDS	0.0018	1.8	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFMOAA	PFMOAA	0.0018	1.8	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0018	1.8	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PMPA	PMPA	0.0018	1.8	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorooctadecanoic Acid	PFODA	0.0026	2.6	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Hydrolyzed PSDA	Hydrolyzed PSDA	0.0018	1.8	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0026	2.6	N	U	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorodecanoic Acid	PFDA	0.0062	6.2	Y		J	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluoroheptanoic Acid	PFHpA	0.0073	7.3	Y		J	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	Y		J	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFO4DA	PFO4DA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	PFO5DA	PFO5DA	0.0044	4.4	N	U		LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	2-Perfluorohexylethanoic Acid	6:2 FTCA	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
Outfall 007-120122-D	OUTLET 007	12/01/2022	Hydro-EVE Acid	Hydro-EVE Acid	0.0018	1.8	N	U,*-,cn	UJ	LIQUID	DUP	Other Liquid	39.27135849	-81.6735992
SW1222-OUTLET 007-120822	OUTLET 007	12/08/2022	PFOA	PFOA	0.389	389	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1222-OUTLET 007-120822	OUTLET 007	12/08/2022	Hfpo Dimer Acid	HFPO-DA	1.59	1590	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1222-OUTLET 007-D-120822	OUTLET 007	12/08/2022	PFOA	PFOA	0.388	388	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1222-OUTLET 007-D-120822	OUTLET 007	12/08/2022	Hfpo Dimer Acid	HFPO-DA	1.81	1810	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	PFOA	PFOA	0.043	43	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	PFOS	PFOS	0.0029	2.9	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluoropentanoic Acid	PFPA	0.0028	2.8	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluorohexanoic Acid	PFHxA	0.0026	2.6	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.030	30	Y	F1	J	LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	Y			LIQUID	FS	Other Liquid	39.27135849	-81.6735992
OHRV-1222-OUTLET 007-A	OUTLET 007	12/12/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Other Liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	PFOA	PFOA	0.242	242	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00711	7.11	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	DONA	DONA	0.00711	7.11	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluoropentanoic Acid	PFPA	0.0419	41.9	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluorohexanoic Acid	PFHxA	0.124	124	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.00178	1.78	N	U,F1	R	LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluorotridecanoic Acid	PFTriA	0.00825	8.25	Y	F1	J	LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	PFOS	PFOS	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluoroundecanoic Acid	PFUnA	0.0472	47.2	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluorobutanoic Acid	PFBA	0.0390	39	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00711	7.11	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Hfpo Dimer Acid	HFPO-DA	4.00	4000	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluorododecanoic Acid	PFDoA	0.0369	36.9	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00355	3.55	N	U,F1		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluorodecanoic Acid	PFDA	0.0749	74.9	Y	F1	J	LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluoroheptanoic Acid	PFHpA	0.0720	72	Y	F1	J	LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-011223	OUTLET 007	01/12/2023	Perfluorononanoic Acid	PFNA	0.0950	95	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-D-011223	OUTLET 007	01/12/2023	DONA	DONA	0.00705	7.05	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-D-011223	OUTLET 007	01/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00176	1.76	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-D-011223	OUTLET 007	01/12/2023	PFOA	PFOA	0.262	262	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-D-011223	OUTLET 007	01/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00705	7.05	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-D-011223	OUTLET 007	01/12/2023	PFOS	PFOS	0.00176	1.76	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-D-011223	OUTLET 007	01/12/2023	Perfluoroundecanoic Acid	PFUnA	0.0542	54.2	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-D-011223	OUTLET 007	01/12/2023	Perfluorobutanoic Acid	PFBA	0.0434	43.4	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-D-011223	OUTLET 007	01/12/2023	Perfluoropentanoic Acid	PFPA	0.0461	46.1	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1Q23-OUTLET 007-A-D-011223	OUTLET 007	01/12/2023	Perfluorohexanoic Acid

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0199	19.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluoropentanoic Acid	PFPA	0.0398	39.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluorohexanoic Acid	PFHxA	0.134	134	Y	F1	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0199	19.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0996	99.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.0199	19.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluorotridecanoic Acid	PFTriA	0.0199	19.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.0199	19.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.498	498	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0398	39.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.199	199	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluorodecanoic Acid	PFDA	0.133	133	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluoroheptanoic Acid	PFHpA	0.0865	86.5	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluorononanoic Acid	PFNA	0.0446	44.6	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0199	19.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0199	19.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0199	19.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0797	79.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-030223	OUTLET 007	03/02/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0797	79.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorononanesulfonic Acid	PFNS	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0394	39.4	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	PFOA	PFOA	0.300	300	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0787	78.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	PFECA B	PFECA B	0.0394	39.4	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	DONA	DONA	0.0787	78.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.492	492	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	PFECA-A	PFECA-A	0.0394	39.4	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	PFOS	PFOS	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluoroundecanoic Acid	PFUnA	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorobutanoic Acid	PFBA	0.0787	78.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	PFECA-F	PFECA-F	0.0394	39.4	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluoropentanoic Acid	PFPA	0.0624	62.4	Y	I	J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorohexanoic Acid	PFHxA	0.159	159	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0984	98.4	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorotridecanoic Acid	PFTriA	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.492	492	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Hfpo Dimer Acid	HFPO-DA	11.6	11600	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.197	197	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0787	78.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorododecanoic Acid	PFDoA	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0787	78.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0197	19.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0787	78.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0787	78.7	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0394	39.4	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.197	197	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorodecanoic Acid	PFDA	0.109	109	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluoroheptanoic Acid	PFHpA	0.0931	93.1	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0323-OUTLET 007-D-030223	OUTLET 007	03/02/2023	Perfluorononanoic Acid	PFNA	0.0451	45.1	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00360	3.6	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	PFOA	PFOA	0.0894	89.4	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00720	7.2	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0450	45	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	PFECA-A	PFECA-A	0.00360	3.6	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	DONA	DONA	0.00720	7.2	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	PFECA B	PFECA B	0.00360	3.6	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluoropentanoic Acid	PFPA	0.0158	15.8	Y	I	J	LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorohexanoic Acid	PFHxA	0.0682	68.2	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00215	2.15	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00901	9.01	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.0152	15.2	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00436	4.36	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0450	45	N	U,F1		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	PFOS	PFOS	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00646	6.46	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorobutanoic Acid	PFBA	0.00733	7.33	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	PFECA-F	PFECA-F	0.00360	3.6	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00720	7.2	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00720	7.2	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Hfpo Dimer Acid	HFPO-DA	0.830	830	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0180	18	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00720	7.2	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorododecanoic Acid	PFDoA	0.0220	22	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00720	7.2	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00180	1.8	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00360	3.6	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0180	18	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorodecanoic Acid	PFDA	0.0254	25.4	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluoroheptanoic Acid	PFHpA	0.0108	10.8	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-041323	OUTLET 007	04/13/2023	Perfluorononanoic Acid	PFNA	0.0107	10.7	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	PFECA B	PFECA B	0.00354	3.54	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	PFECA-A	PFECA-A	0.00354	3.54	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0442	44.2	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	DONA	DONA	0.00707	7.07	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00354	3.54	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	PFOA	PFOA	0.0849	84.9	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00707	7.07	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	PFOS	PFOS	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00665	6.65	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorobutanoic Acid	PFBA	0.00740	7.4	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	PFECA-F	PFECA-F	0.00354	3.54	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluoropentanoic Acid	PFPA	0.0164	16.4	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorohexanoic Acid	PFHxA	0.0723	72.3	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00209	2.09	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00884	8.84	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.0136	13.6	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00455	4.55	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0442	44.2	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Hfpo Dimer Acid	HFPO-DA	0.855	855	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0177	17.7	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00707	7.07	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorododecanoic Acid	PFDoA	0.0202	20.2	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00707	7.07	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00177	1.77	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00707	7.07	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00707	7.07	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00354	3.54	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0177	17.7	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW2Q23-OUTLET 007-A-D-041323	OUTLET 007	04/13/2023	Perfluorodecanoic Acid	PFDA	0.0229	22.9	Y			LIQUID	DUP	Other liquid	39

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0176	17.6	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00704	7.04	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	Perfluorododecanoic Acid	PFDoA	0.0113	11.3	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00704	7.04	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00176	1.76	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00176	1.76	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00176	1.76	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00704	7.04	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00704	7.04	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00352	3.52	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	Perfluorodecanoic Acid	PFDA	0.0126	12.6	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	Perfluoroheptanoic Acid	PFHpA	0.0109	10.9	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0523-OUTLET 007-A-D-050423	OUTLET 007	05/04/2023	Perfluorononanoic Acid	PFNA	0.0114	11.4	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFECA-A	PFECA-A	0.00350	3.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0438	43.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	DONA	DONA	0.00700	7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFECA B	PFECA B	0.00350	3.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00237	2.37	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00350	3.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFOA	PFOA	0.164	164	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00700	7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorononanesulfonic Acid	PFNS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFOS	PFOS	0.00197	1.97	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoroundecanoic Acid	PFUnA	0.00813	8.13	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorobutanoic Acid	PFBA	0.0425	42.5	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFECA-F	PFECA-F	0.00350	3.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Hfpo Dimer Acid	HFPO-DA	0.115	115	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0175	17.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00700	7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorododecanoic Acid	PFDoA	0.0304	30.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00700	7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoropentanoic Acid	PFPA	0.107	107	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorohexanoic Acid	PFHxA	0.379	379	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00875	8.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorotetradecanoic Acid	PFTeA	0.0254	25.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorotridecanoic Acid	PFTriA	0.00599	5.99	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorooctane Sulfonamide	PFOSA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0438	43.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00350	3.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0175	17.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorodecanoic Acid	PFDA	0.0446	44.6	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoroheptanoic Acid	PFHpA	0.0144	14.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorononanoic Acid	PFNA	0.00975	9.75	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00700	7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00700	7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorononanesulfonic Acid	PFNS	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00346	3.46	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFOA	PFOA	0.173	173	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00693	6.93	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00204	2.04	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFECA B	PFECA B	0.00346	3.46	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	DONA	DONA	0.00693	6.93	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0433	43.3	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFECA-A	PFECA-A	0.00346	3.46	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFOS	PFOS	0.00191	1.91	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoroundecanoic Acid	PFUnA	0.00865	8.65	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorobutanoic Acid	PFBA	0.0426	42.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	PFECA-F	PFECA-F	0.00346	3.46	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoropentanoic Acid	PFPA	0.0996	99.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorohexanoic Acid	PFHxA	0.350	350	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00866	8.66	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorotetradecanoic Acid	PFTeA	0.0260	26	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorotridecanoic Acid	PFTriA	0.00665	6.65	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorooctane Sulfonamide	PFOSA	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0433	43.3	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Hfpo Dimer Acid	HFPO-DA	0.107	107	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0173	17.3	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00693	6.93	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorododecanoic Acid	PFDoA	0.0327	32.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00693	6.93	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00173	1.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00693	6.93	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00693	6.93	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00346	3.46	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0173	17.3	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorodecanoic Acid	PFDA	0.0458	45.8	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluoroheptanoic Acid	PFHpA	0.0145	14.5	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0623-OUTLET 007-A-060123	OUTLET 007	06/01/2023	Perfluorononanoic Acid	PFNA	0.0116	11.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00357	3.57	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	PFOA	PFOA	0.0258	25.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00714	7.14	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	PFECA B	PFECA B	0.00357	3.57	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00225	2.25	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	PFECA-A	PFECA-A	0.00357	3.57	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0447	44.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	DONA	DONA	0.00714	7.14	N	U,cn		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluoropentanoic Acid	PFPA	0.00537	5.37	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorohexanoic Acid	PFHxA	0.0152	15.2	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00893	8.93	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00510	5.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00418	4.18	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0447	44.7	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	PFOS	PFOS	0.00224	2.24	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorobutanoic Acid	PFBA	0.00714	7.14	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	PFECA-F	PFECA-F	0.00357	3.57	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00714	7.14	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00714	7.14	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Hfpo Dimer Acid	HFPO-DA	0.160	160	Y	^2		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0179	17.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00714	7.14	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorododecanoic Acid	PFDoA	0.00363	3.63	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00714	7.14	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00357	3.57	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0179	17.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorodecanoic Acid	PFDA	0.00336	3.36	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluoroheptanoic Acid	PFHpA	0.00331	3.31	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	Perfluorononanoic Acid	PFNA	0.00264	2.64	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	DONA	DONA	0.00689	6.89	N	U,cn		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0431	43.1	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007	07/13/2023	PFECA-A	PFECA-A	0.00344	3.44	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW3Q23-OUTLET 007-A-071323	OUTLET 007

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0475	47.5	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00380	3.8	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0190	19	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	Perfluorodecanoic Acid	PFDA	0.00924	9.24	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	Perfluoroheptanoic Acid	PFHpA	0.00611	6.11	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	Perfluorononanoic Acid	PFNA	0.00231	2.31	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00759	7.59	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A	OUTLET 007	08/03/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00759	7.59	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00311	3.11	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	PFECA B	PFECA B	0.00379	3.79	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	DONA	DONA	0.00758	7.58	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0474	47.4	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	PFECA-A	PFECA-A	0.00379	3.79	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00379	3.79	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	PFOA	PFOA	0.0426	42.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00758	7.58	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorononanesulfonic Acid	PFNS	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	PFOS	PFOS	0.00353	3.53	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluoroundecanoic Acid	PFUnA	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorobutanoic Acid	PFBA	0.00758	7.58	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	PFECA-F	PFECA-F	0.00379	3.79	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00758	7.58	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00758	7.58	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluoropentanoic Acid	PFPA	0.00765	7.65	Y	I	J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorohexanoic Acid	PFHxA	0.0296	29.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00948	9.48	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorotetradecanoic Acid	PFTeA	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorotridecanoic Acid	PFTriA	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorooctane Sulfonamide	PFOSA	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0474	47.4	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Hfpo Dimer Acid	HFPO-DA	0.0737	73.7	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0190	19	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00758	7.58	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorododecanoic Acid	PFDoA	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00758	7.58	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00190	1.9	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00379	3.79	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0190	19	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorodecanoic Acid	PFDA	0.00842	8.42	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluoroheptanoic Acid	PFHpA	0.00655	6.55	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0823-OUTLET 007-A-D	OUTLET 007	08/03/2023	Perfluorononanoic Acid	PFNA	0.00242	2.42	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorononanesulfonic Acid	PFNS	0.00171	1.71	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00343	3.43	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	PFOA	PFOA	0.0930	93	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00686	6.86	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00171	1.71	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	PFECA-A	PFECA-A	0.00343	3.43	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0429	42.9	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	DONA	DONA	0.00686	6.86	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00171	1.71	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	PFECA B	PFECA B	0.00343	3.43	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00171	1.71	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00339	3.39	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	PFOS	PFOS	0.00329	3.29	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluoroundecanoic Acid	PFUnA	0.00939	9.39	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorobutanoic Acid	PFBA	0.0261	26.1	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	PFECA-F	PFECA-F	0.00343	3.43	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00171	1.71	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00171	1.71	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00171	1.71	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00686	6.86	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00686	6.86	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Hfpo Dimer Acid	HFPO-DA	1.35	1350	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0171	17.1	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00686	6.86	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorododecanoic Acid	PFDoA	0.00715	7.15	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00686	6.86	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00171	1.71	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluoropentanoic Acid	PFPA	0.0304	30.4	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorohexanoic Acid	PFHxA	0.0870	87	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00214	2.14	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00857	8.57	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorotetradecanoic Acid	PFTeA	0.00983	9.83	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorotridecanoic Acid	PFTriA	0.00689	6.89	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorooctane Sulfonamide	PFOSA	0.00171	1.71	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0429	42.9	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00343	3.43	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0171	17.1	N	U,cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorodecanoic Acid	PFDA	0.0269	26.9	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluoroheptanoic Acid	PFHpA	0.0332	33.2	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-090723	OUTLET 007	09/07/2023	Perfluorononanoic Acid	PFNA	0.0232	23.2	Y	cn		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00334	3.34	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	PFECA B	PFECA B	0.00341	3.41	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	DONA	DONA	0.00682	6.82	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0426	42.6	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	PFECA-A	PFECA-A	0.00341	3.41	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00341	3.41	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	PFOA	PFOA	0.106	106	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00682	6.82	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorononanesulfonic Acid	PFNS	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	PFOS	PFOS	0.00341	3.41	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluoroundecanoic Acid	PFUnA	0.0112	11.2	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorobutanoic Acid	PFBA	0.0285	28.5	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	PFECA-F	PFECA-F	0.00341	3.41	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00682	6.82	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00682	6.82	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluoropentanoic Acid	PFPA	0.0290	29	Y	I,cn	J	LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorohexanoic Acid	PFHxA	0.0864	86.4	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00852	8.52	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorotetradecanoic Acid	PFTeA	0.0121	12.1	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorotridecanoic Acid	PFTriA	0.00723	7.23	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorooctane Sulfonamide	PFOSA	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0426	42.6	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Hfpo Dimer Acid	HFPO-DA	1.25	1250	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00682	6.82	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorododecanoic Acid	PFDoA	0.00780	7.8	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00682	6.82	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00341	3.41	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0170	17	N	U,cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorodecanoic Acid	PFDA	0.0326	32.6	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluoroheptanoic Acid	PFHpA	0.0318	31.8	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW0923-OUTLET 007-A-D-090723	OUTLET 007	09/07/2023	Perfluorononanoic Acid	PFNA	0.0257	25.7	Y	cn		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-100523	OUTLET 007	10/05/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00355	3.55	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-100523	OUTLET 007	10/05/2023	PFOA	PFOA	0.509	509	Y			LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-100523	OUTLET 007	10/05/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00711	7.11	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-100523	OUTLET 007	10/05/2023	Perfluorononanesulfonic Acid	PFNS	0.00178	1.78	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-100523	OUTLET 007	10/05/2023	PFECA-A	PFECA-A	0.00355	3.55	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-100523	OUTLET 007	10/05/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0444	44.4	N	U		LIQUID	FS	Other liquid	39.27135849	-81.6735992
SW

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q23-OUTLET 007-A-D-100523	OUTLET 007	10/05/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00713	7.13	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-D-100523	OUTLET 007	10/05/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00713	7.13	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-D-100523	OUTLET 007	10/05/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00356	3.56	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-D-100523	OUTLET 007	10/05/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0178	17.8	N	U		LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-D-100523	OUTLET 007	10/05/2023	Perfluorodecanoic Acid	PFDA	0.0341	34.1	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-D-100523	OUTLET 007	10/05/2023	Perfluoroheptanoic Acid	PFHpA	0.0280	28	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW4Q23-OUTLET 007-A-D-100523	OUTLET 007	10/05/2023	Perfluorononanoic Acid	PFNA	0.0213	21.3	Y			LIQUID	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorononanesulfonic Acid	PFNS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00343	3.43	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	PFOA	PFOA	0.103	103	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	PFECA-A	PFECA-A	0.00343	3.43	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0429	42.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	DONA	DONA	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	PFECA B	PFECA B	0.00343	3.43	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00483	4.83	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	PFOS	PFOS	0.00365	3.65	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluoroundecanoic Acid	PFUnA	0.00760	7.6	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorobutanoic Acid	PFBA	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	PFECA-F	PFECA-F	0.00343	3.43	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Hfpo Dimer Acid	HFPO-DA	0.0969	96.9	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0171	17.1	N	U	R	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorododecanoic Acid	PFDoA	0.0165	16.5	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00171	1.71	N	U,F2		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluoropentanoic Acid	PFPA	0.00629	6.29	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorohexanoic Acid	PFHxA	0.0273	27.3	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00356	3.56	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00857	8.57	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.0111	11.1	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorotridecanoic Acid	PFTriA	0.00823	8.23	Y		J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0429	42.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00343	3.43	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0171	17.1	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorodecanoic Acid	PFDA	0.00896	8.96	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluoroheptanoic Acid	PFHpA	0.00375	3.75	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-110223	OUTLET 007	11/02/2023	Perfluorononanoic Acid	PFNA	0.00365	3.65	Y	I	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00531	5.31	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00175	1.75	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	PFECA B	PFECA B	0.00349	3.49	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00175	1.75	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	DONA	DONA	0.00698	6.98	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00175	1.75	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0436	43.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	PFECA-A	PFECA-A	0.00349	3.49	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00349	3.49	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	PFOA	PFOA	0.110	110	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00698	6.98	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorononanesulfonic Acid	PFNS	0.00175	1.75	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	PFOS	PFOS	0.00384	3.84	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluoroundecanoic Acid	PFUnA	0.00863	8.63	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorobutanoic Acid	PFBA	0.00698	6.98	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	PFECA-F	PFECA-F	0.00349	3.49	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00175	1.75	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00175	1.75	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00175	1.75	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00698	6.98	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00698	6.98	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluoropentanoic Acid	PFPA	0.00703	7.03	Y	I	J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorohexanoic Acid	PFHxA	0.0281	28.1	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00346	3.46	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00873	8.73	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorotetradecanoic Acid	PFTeA	0.00496	4.96	Y		J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorotridecanoic Acid	PFTriA	0.00473	4.73	Y		J	Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorooctane Sulfonamide	PFOSA	0.00175	1.75	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0436	43.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Hfpo Dimer Acid	HFPO-DA	0.0961	96.1	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0175	17.5	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00698	6.98	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorododecanoic Acid	PFDoA	0.0156	15.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00698	6.98	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00175	1.75	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00349	3.49	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0175	17.5	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorodecanoic Acid	PFDA	0.00919	9.19	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluoroheptanoic Acid	PFHpA	0.00427	4.27	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1123-OUTLET 007-A-D-110223	OUTLET 007	11/02/2023	Perfluorononanoic Acid	PFNA	0.00396	3.96	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00761	7.61	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00761	7.61	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00761	7.61	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0190	19	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0190	19	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00951	9.51	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0476	47.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00761	7.61	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0476	47.6	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00761	7.61	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	DONA	DONA	0.00761	7.61	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Hfpo Dimer Acid	HFPO-DA	0.0811	81.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00381	3.81	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00381	3.81	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00245	2.45	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorobutanoic Acid	PFBA	0.134	134	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorodecanoic Acid	PFDA	0.0774	77.4	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorododecanoic Acid	PFDoA	0.0398	39.8	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluoroheptanoic Acid	PFHpA	0.0220	22	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00344	3.44	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorohexanoic Acid	PFHxA	0.410	410	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorononanesulfonic Acid	PFNS	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorononanoic Acid	PFNA	0.0161	16.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorooctane Sulfonamide	PFOSA	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00190	1.9	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluoropentanoic Acid	PFPA	0.0326	32.6	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorotetradecanoic Acid	PFTeA	0.0311	31.1	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluorotridecanoic Acid	PFTriA	0.00802	8.02	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	Perfluoroundecanoic Acid	PFUnA	0.0200	20	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	PFECA B	PFECA B	0.00381	3.81	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	PFECA-A	PFECA-A	0.00381	3.81	N	U		Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	PFECA-F	PFECA-F	0.00549	5.49	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	PFOA	PFOA	0.336	336	Y			Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A	OUTLET 007	12/07/2023	PFOS	PFOS	0.00344	3.44	Y	I	J	Liquid	FS	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00784	7.84	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00784	7.84	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00784	7.84	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0196	19.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0196	19.6	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00980	9.8	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0490	49	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00784	7.84	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0490	49	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00784	7.84	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	DONA	DONA	0.00784	7.84	N	U		Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	Hfpo Dimer Acid	HFPO-DA	0.0796	79.6	Y			Liquid	DUP	Other liquid	39.27135849	-81.6735992
SW1223-OUTLET 007-A-D	OUTLET 007	12/07/2023	N-Ethyl Perfluorooctane Sulfonamidoac

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	Perfluorotridecanoic Acid	PFTriA	0.0029	2.9	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	PFOS	PFOS	0.037	37	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	Perfluorotetradecanoic Acid	PFTeA	0.002	2	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	Perfluorobutane Sulfonic Acid	PFBS	0.004	4	Y		J	Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	Perfluoroheptanoic Acid	PFHpA	0.036	36	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	Perfluorononanoic Acid	PFNA	0.018	18	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	Perfluoroundecanoic Acid	PFUnA	0.008	8	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	Perfluorodecanoic Acid	PFDA	0.012	12	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-A-D	OUTLET 011	10/07/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-D	OUTLET 011	10/07/2019	Hfpo Dimer Acid	HFPO-DA	40	40000	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q19-OUTLET 011-D	OUTLET 011	10/07/2019	PFOA	PFOA	1.0	1000	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011	OUTLET 011	05/20/2020	PFOA	PFOA	0.74	740	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011	OUTLET 011	05/20/2020	Hfpo Dimer Acid	HFPO-DA	6.4	6400	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluorodecanoic Acid	PFDA	0.012	12	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	DONA	DONA	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	PFOS	PFOS	0.11	110	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluorotetradecanoic Acid	PFTeA	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0048	4.8	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluorononanoic Acid	PFNA	0.013	13	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluoroheptanoic Acid	PFHpA	0.023	23	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluoroundecanoic Acid	PFUnA	0.0031	3.1	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluorohexanoic Acid	PFHxA	0.025	25	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluorododecanoic Acid	PFDoA	0.0022	2.2	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.034	34	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A	OUTLET 011	05/20/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.034	34	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluorododecanoic Acid	PFDoA	0.002	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluorohexanoic Acid	PFHxA	0.028	28	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluoroundecanoic Acid	PFUnA	0.0028	2.8	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluoroheptanoic Acid	PFHpA	0.023	23	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluorononanoic Acid	PFNA	0.013	13	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0053	5.3	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluorotetradecanoic Acid	PFTeA	0.002	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	PFOS	PFOS	0.1	100	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	DONA	DONA	0.002	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-A-D	OUTLET 011	05/20/2020	Perfluorodecanoic Acid	PFDA	0.011	11	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-D	OUTLET 011	05/20/2020	Hfpo Dimer Acid	HFPO-DA	5.5	5500	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2Q20-OUTLET 011-D	OUTLET 011	05/20/2020	PFOA	PFOA	0.68	680	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW3Q20-OUTLET 011	OUTLET 011	09/03/2020	PFOA	PFOA	1.7	1700	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW3Q20-OUTLET 011	OUTLET 011	09/03/2020	Hfpo Dimer Acid	HFPO-DA	84	84000	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW3Q20-OUTLET 011-D	OUTLET 011	09/03/2020	Hfpo Dimer Acid	HFPO-DA	79	79000	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW3Q20-OUTLET 011-D	OUTLET 011	09/03/2020	PFOA	PFOA	1.8	1800	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Hfpo Dimer Acid	HFPO-DA	21	21000	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluorodecanoic Acid	PFDA	0.015	15	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	PFOA	PFOA	0.71	710	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	PFOS	PFOS	0.030	30	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.0025	2.5	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0041	4.1	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluorobutanoic Acid	PFBA	0.027	27	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.023	23	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluorononanoic Acid	PFNA	0.012	12	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.0077	7.7	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluoropentanoic Acid	PFPA	0.033	33	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.043	43	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.0071	7.1	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.0023	2.3	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A	OUTLET 011	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.0022	2.2	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.019	19	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.0065	6.5	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.042	42	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluoropentanoic Acid	PFPA	0.034	34	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.0070	7	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.024	24	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluorononanoic Acid	PFNA	0.011	11	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0043	4.3	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluorobutanoic Acid	PFBA	0.027	27	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.0022	2.2	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	PFOS	PFOS	0.029	29	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	DONA	DONA	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Perfluorodecanoic Acid	PFDA	0.015	15	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	PFOA	PFOA	0.73	730	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW2H20-OUTLET 011-A-D	OUTLET 011	11/11/2020	Hfpo Dimer Acid	HFPO-DA	22	22000	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1Q21-OUTLET 011-A	OUTLET 011	02/28/2021	Hfpo Dimer Acid	HFPO-DA	3.2	3200	Y		B	Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1Q21-OUTLET 011-A	OUTLET 011	02/28/2021	PFOA	PFOA	0.55	550	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1Q21-OUTLET 011-A-D	OUTLET 011	02/28/2021	PFOA	PFOA	0.57	570	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1Q21-OUTLET 011-A-D	OUTLET 011	02/28/2021	Hfpo Dimer Acid	HFPO-DA	3.9	3900	Y		B	Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Hfpo Dimer Acid	HFPO-DA	10	10000	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	PFOA	PFOA	0.62	620	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluorodecanoic Acid	PFDA	0.016	16	Y		J	Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	PFOS	PFOS	0.037	37	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0029	2.9	Y		J	Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluorobutanoic Acid	PFBA	0.056	56	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.024	24	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluorononanoic Acid	PFNA	0.012	12	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.0052	5.2	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluoropentanoic Acid	PFPA	0.038	38	Y		J	Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.0040	4	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.020	20	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A	OUTLET 011	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.022	22	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.0035	3.5	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluoropentanoic Acid	PFPA	0.039	39	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.0056	5.6	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluorononanoic Acid	PFNA	0.013	13	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.024	24	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluorobutanoic Acid	PFBA	0.063	63	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0025	2.5	Y		J	Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U	R	Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	PFOS	PFOS	0.037	37	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Perfluorodecanoic Acid	PFDA	0.017	17	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	PFOA	PFOA	0.63	630	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H21-OUTLET 011-A-D	OUTLET 011	08/18/2021	Hfpo Dimer Acid	HFPO-DA	11	11000	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	PFOA	PFOA	0.92	920	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	Hfpo Dimer Acid	HFPO-DA	19	19000	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	Perfluorodecanoic Acid	PFDA	0.015	15	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	PFOS	PFOS	0.059	59	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.0036	3.6	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	Perfluorobutanoic Acid	PFBA	0.062	62	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0052	5.2	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	Perfluoroheptanoic Acid	PFHpA	0.041	41	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	Perfluorononanoic Acid	PFNA	0.018	18	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.0085	8.5	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q21-OUTLET 011	OUTLET 011	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2702786856	-81

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluorododecanoic Acid	PFDoA	0.097	97	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluorohexanoic Acid	PFHxA	0.28	280	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluoropentanoic Acid	PFPA	0.34	340	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluoroundecanoic Acid	PFUnA	0.087	87	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluorononanoic Acid	PFNA	0.070	70	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluoroheptanoic Acid	PFHpA	0.068	68	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluorobutanoic Acid	PFBA	0.29	290	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.049	49	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	PFOS	PFOS	0.0020	2	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	DONA	DONA	0.0020	2	N	U		Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	PFOA	PFOA	0.22	220	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Perfluorodecanoic Acid	PFDA	0.081	81	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW1H22-OUTLET 011-A-D	OUTLET 011	07/18/2022	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y			Liquid	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	PFOA	PFOA	0.478	478	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Hfpo Dimer Acid	HFPO-DA	227	227000	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	DONA	DONA	0.00772	7.72	N	U		LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluorodecanoic Acid	PFDA	0.00961	9.61	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	PFOS	PFOS	0.0226	22.6	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.00387	3.87	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluorobutanoic Acid	PFBA	0.0663	66.3	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.00201	2.01	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluoroheptanoic Acid	PFHpA	0.0241	24.1	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluorononanoic Acid	PFNA	0.0136	13.6	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluoroundecanoic Acid	PFUnA	0.00740	7.4	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluorohexanoic Acid	PFHxA	0.0564	56.4	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00386	3.86	N	U		LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluoropentanoic Acid	PFPA	0.268	268	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluorododecanoic Acid	PFDoA	0.00376	3.76	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.00552	5.52	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.00772	7.72	N	U		LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	Perfluorotridecanoic Acid	PFTriA	0.00348	3.48	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00772	7.72	N	U		LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW4Q22-OUTLET 011	OUTLET 011	11/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00193	1.93	N	U		LIQUID	FS	Other liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Hfpo Dimer Acid	HFPO-DA	19	19000	Y	cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PMPA	PMPA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	10:2 Fluorotelomer sulfonate	10:2 FTS	0.049	49	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorooctadecanoic Acid	PFODA	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PEPA	PEPA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFOA	PFOA	0.41	410	Y	cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorodecanoic Acid	PFDA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PS Acid	PS Acid	0.099	99	N	U,*-,cn	R	LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFECA-F	PFECA-F	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorohexanesulfonamide	FHXSA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PPF Acid	PPF Acid	0.13	130	Y	cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluoropropanesulfonic Acid	PFPrS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	2-Perfluorohexylethanoic Acid	6:2 FTCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	2-Perfluorodecylethanoic Acid	10:2 FTCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	EVE Acid	EVE Acid	0.099	99	N	U,*-,cn	R	LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Hydro-PS Acid	Hydro-PS Acid	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFECA-A	PFECA-A	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Hydro-EVE Acid	Hydro-EVE Acid	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	DONA	DONA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFO2HxA	PFO2HxA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFO3OA	PFO3OA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFO4DA	PFO4DA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.049	49	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFO5DA	PFO5DA	0.049	49	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	R-PSDA	R-PSDA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Hydrolyzed PSDA	Hydrolyzed PSDA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	R-PSDCA	R-PSDCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	R-EVE	R-EVE	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFOS	PFOS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorotetradecanoic Acid	PFTeA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorobutanoic Acid	PFBA	0.049	49	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluoroheptanoic Acid	PFHpA	0.021	21	Y	cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorononanoic Acid	PFNA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFECA B	PFECA B	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluoropentanoic Acid	PFPA	0.045	45	Y	cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.049	49	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorohexanoic Acid	PFHxA	0.038	38	Y	cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorododecanoic Acid	PFDoA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFMOAA	PFMOAA	0.020	20	N	U,*-,cn	UJ	LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorooctane Sulfonamide	PFOSA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	NVHOS, Acid Form	NVHOS, Acid Form	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	PFECA-G	PFECA-G	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	MTP	MTP	0.049	49	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorotridecanoic Acid	PFTriA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorobutylsulphonamide	FBSA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	Perfluorononanesulfonic Acid	PFNS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
Outfall 011	OUTLET 011	01/03/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.2702786856	-81.655833893
SW20232H-OUTLET 011-A	OUTLET 011	02/16/2023	PFOA	PFOA	0.598	598	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW20232H-OUTLET 011-A	OUTLET 011	02/16/2023	Hfpo Dimer Acid	HFPO-DA	10.3	10300	Y			LIQUID	FS	Other liquid	39.2702786856	-81.655833893
SW20232H-OUTLET 011-A-D	OUTLET 011	02/16/2023	Hfpo Dimer Acid	HFPO-DA	9.80	9800	Y			LIQUID	DUP	Other liquid	39.2702786856	-81.655833893
SW20232H-OUTLET 011-A-D	OUTLET 011	02/16/2023	PFOA	PFOA	0.442	442	Y			LIQUID	DUP	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00699	6.99	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00699	6.99	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00699	6.99	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0175	17.5	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0175	17.5	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00874	8.74	N	U,*+,cn		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0437	43.7	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00699	6.99	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0437	43.7	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00699	6.99	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	DONA	DONA	0.00699	6.99	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Hfpo Dimer Acid	HFPO-DA	15.7	15700	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00349	3.49	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00349	3.49	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0175	17.5	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorobutanoic Acid	PFBA	0.0325	32.5	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorodecanoic Acid	PFDA	0.148	148	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorododecanoic Acid	PFDoA	0.00623	6.23	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluoroheptanoic Acid	PFHpA	0.0522	52.2	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0399	39.9	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorohexanoic Acid	PFHxA	0.297	297	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorononanesulfonic Acid	PFNS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorononanoic Acid	PFNA	0.0826	82.6	Y	*+,cn	J	Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorooctane Sulfonamide	PFOSA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00453	4.53	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluoropentanoic Acid	PFPA	0.0893	89.3	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorotetradecanoic Acid	PFTeA	0.00237	2.37	Y			Liquid	FS	Other liquid	39.2702786856	-81.655833893
SW4Q23-OUTLET 011-103023	OUTLET 011	10/30/2023	Perfluorotridecanoic Acid	PFTriA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.2702786856

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluorodecanoic Acid	PFDA	0.2	200	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluorododecanoic Acid	PFDoA	0.087	87	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluoroheptanoic Acid	PFHpA	0.17	170	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluorohexanoic Acid	PFHxA	0.25	250	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluorononanoic Acid	PFNA	0.17	170	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluorotetradecanoic Acid	PFTeA	0.041	41	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluorotridecanoic Acid	PFTriA	0.053	53	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	Perfluoroundecanoic Acid	PFUnA	0.11	110	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q19-OUTLET 016-A	OUTLET 016	10/07/2019	PFOS	PFOS	0.0017	1.7	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016	OUTLET 016	03/19/2020	Hfpo Dimer Acid	HFPO-DA	5.7	5700	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016	OUTLET 016	03/19/2020	PFOA	PFOA	0.50	500	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	DONA	DONA	0.002	2	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluorodecanoic Acid	PFDA	0.043	43	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluorododecanoic Acid	PFDoA	0.027	27	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluoroheptanoic Acid	PFHpA	0.097	97	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	<		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluorohexanoic Acid	PFHxA	0.098	98	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluorononanoic Acid	PFNA	0.076	76	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluorotetradecanoic Acid	PFTeA	0.0062	6.2	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluorotridecanoic Acid	PFTriA	0.015	15	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	Perfluoroundecanoic Acid	PFUnA	0.036	36	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q20-OUTLET 016-A	OUTLET 016	03/19/2020	PFOS	PFOS	0.0032	3.2	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016	OUTLET 016	05/08/2020	Hfpo Dimer Acid	HFPO-DA	3.9	3900	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016	OUTLET 016	05/08/2020	PFOA	PFOA	0.41	410	Y	F1	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	DONA	DONA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U,H	UJ	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluorodecanoic Acid	PFDA	0.082	82	Y	H	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluorododecanoic Acid	PFDoA	0.064	64	Y	H	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluoroheptanoic Acid	PFHpA	0.073	73	Y	H	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluorohexanoic Acid	PFHxA	1.4	1400	Y	H	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluorononanoic Acid	PFNA	0.075	75	Y	H	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluorotetradecanoic Acid	PFTeA	0.015	15	Y	H	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluorotridecanoic Acid	PFTriA	0.037	37	Y	H	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	Perfluoroundecanoic Acid	PFUnA	0.074	74	Y	H	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2Q20-OUTLET 016-A	OUTLET 016	05/08/2020	PFOS	PFOS	0.0021	2.1	Y	H	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW3Q20-OUTLET 016	OUTLET 016	09/03/2020	Hfpo Dimer Acid	HFPO-DA	6.3	6300	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW3Q20-OUTLET 016	OUTLET 016	09/03/2020	PFOA	PFOA	0.56	560	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Hfpo Dimer Acid	HFPO-DA	3.2	3200	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0055	5.5	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluorobutanoic Acid	PFBA	0.37	370	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluorodecanoic Acid	PFDA	0.077	77	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.077	77	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.048	48	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.33	330	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluorononanoic Acid	PFNA	0.052	52	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluoropentanoic Acid	PFPA	0.20	200	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.029	29	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.043	43	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.078	78	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	PFOA	PFOA	0.17	170	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW2H20-OUTLET 016-A	OUTLET 016	11/11/2020	PFOS	PFOS	0.0019	1.9	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q21-OUTLET 016-A	OUTLET 016	02/28/2021	Hfpo Dimer Acid	HFPO-DA	0.99	990	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q21-OUTLET 016-A	OUTLET 016	02/28/2021	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Hfpo Dimer Acid	HFPO-DA	5.0	5000	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	Y		J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluorobutanoic Acid	PFBA	0.90	900	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluorodecanoic Acid	PFDA	0.15	150	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.053	53	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.12	120	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.86	860	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluorononanoic Acid	PFNA	0.12	120	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluoropentanoic Acid	PFPA	0.32	320	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.031	31	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.039	39	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.061	61	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	PFOA	PFOA	0.53	530	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H21-OUTLET 016-A	OUTLET 016	08/18/2021	PFOS	PFOS	0.0029	2.9	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Hfpo Dimer Acid	HFPO-DA	5.1	5100	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluorobutanoic Acid	PFBA	0.98	980	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluorodecanoic Acid	PFDA	0.11	110	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluorododecanoic Acid	PFDoA	0.056	56	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluoroheptanoic Acid	PFHpA	0.25	250	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluorohexanoic Acid	PFHxA	0.75	750	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluorononanoic Acid	PFNA	0.13	130	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluoropentanoic Acid	PFPA	0.93	930	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.029	29	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluorotridecanoic Acid	PFTriA	0.037	37	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.066	66	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	PFOA	PFOA	0.43	430	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q21-OUTLET 016	OUTLET 016	12/06/2021	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q22-OUTLET 016	OUTLET 016	02/22/2022	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1Q22-OUTLET 016	OUTLET 016	02/22/2022	PFOA	PFOA	0.30	300	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U,F2,F1	UJ	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U	UJ	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluorobutanoic Acid	PFBA	0.056	56	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluorodecanoic Acid	PFDA	0.032	32	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluorododecanoic Acid	PFDoA	0.084	84	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluoroheptanoic Acid	PFHpA	0.046	46	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluorohexanoic Acid	PFHxA	0.063	63	Y	F1	J	Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluorononanoic Acid	PFNA	0.043	43	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluoropentanoic Acid	PFPA	0.14	140	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.065	65	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluorotridecanoic Acid	PFTriA	0.13	130	Y	F2		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	Perfluoroundecanoic Acid	PFUnA	0.070	70	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	PFOA	PFOA	0.20	200	Y			Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW1H22-OUTLET 016-A	OUTLET 016	07/18/2022	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00815	8.15	N	U		LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.00815	8.15	N	U		LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	DONA	DONA	0.00815	8.15	N	U		LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	Hfpo Dimer Acid	HFPO-DA	7.83	7830	Y			LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00204	2.04	N	U		LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00407	4.07	N	U		LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.00285	2.85	Y			LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	Perfluorobutanoic Acid	PFBA	0.173	173	Y			LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	Perfluorodecanoic Acid	PFDA	0.0307	30.7	Y			LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	Perfluorododecanoic Acid	PFDoA	0.0814	81.4	Y			LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022	Perfluoroheptanoic Acid	PFHpA	0.111	111	Y			LIQUID	FS	Other liquid	39.2708342398	-81.675278329
SW4Q22-OUTLET 016	OUTLET 016	11/11/2022

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1Q19-OUTLET 019	OUTLET 019	02/06/2019	Hfpo Dimer Acid	HFPO-DA	0.62	620	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW1Q19-OUTLET 019	OUTLET 019	02/06/2019	PFOA	PFOA	0.080	80	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q19-OUTLET 019	OUTLET 019	04/26/2019	Hfpo Dimer Acid	HFPO-DA	2.7	2700	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q19-OUTLET 019	OUTLET 019	04/26/2019	PFOA	PFOA	0.51	510	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	<		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluorodecanoic Acid	PFDA	0.012	12	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluorododecanoic Acid	PFDoA	0.0073	7.3	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluoroheptanoic Acid	PFHpA	0.013	13	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluorohexanoic Acid	PFHxA	0.015	15	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluorononanoic Acid	PFNA	0.016	16	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluorotetradecanoic Acid	PFTeA	0.0057	5.7	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluorotridecanoic Acid	PFTriA	0.0045	4.5	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	Perfluoroundecanoic Acid	PFUnA	0.01	10	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q19-OUTLET 019-A	OUTLET 019	10/31/2019	PFOS	PFOS	0.002	2	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q-OUTLET 019	OUTLET 019	10/31/2019	Hfpo Dimer Acid	HFPO-DA	0.50	500	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW4Q-OUTLET 019	OUTLET 019	10/31/2019	PFOA	PFOA	0.11	110	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019	OUTLET 019	05/21/2020	Hfpo Dimer Acid	HFPO-DA	0.59	590	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019	OUTLET 019	05/21/2020	PFOA	PFOA	0.097	97	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	DONA	DONA	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluorodecanoic Acid	PFDA	0.0074	7.4	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluorododecanoic Acid	PFDoA	0.0042	4.2	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluoroheptanoic Acid	PFHpA	0.015	15	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluorohexanoic Acid	PFHxA	0.019	19	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluorononanoic Acid	PFNA	0.015	15	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluorotetradecanoic Acid	PFTeA	0.0027	2.7	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluorotridecanoic Acid	PFTriA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	Perfluoroundecanoic Acid	PFUnA	0.0064	6.4	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW2Q20-OUTLET 019-A	OUTLET 019	05/21/2020	PFOS	PFOS	0.002	2	N	U		Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW1Q21-OUTLET 019-A	OUTLET 019	02/28/2021	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW1Q21-OUTLET 019-A	OUTLET 019	02/28/2021	PFOA	PFOA	0.088	88	Y			Liquid	FS	Other liquid	39.2702786817	-81.676111657
SW3Q18-OUTLET 022	OUTLET 022	09/17/2018	Hfpo Dimer Acid	HFPO-DA	0.39	390	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW3Q18-OUTLET 022	OUTLET 022	09/17/2018	PFOA	PFOA	0.043	43	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q18-OUTLET 022	OUTLET 022	11/15/2018	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q18-OUTLET 022	OUTLET 022	11/15/2018	PFOA	PFOA	0.043	43	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1Q19-OUTLET 022	OUTLET 022	02/06/2019	Hfpo Dimer Acid	HFPO-DA	0.84	840	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1Q19-OUTLET 022	OUTLET 022	02/06/2019	PFOA	PFOA	0.051	51	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q19-OUTLET 022	OUTLET 022	04/26/2019	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q19-OUTLET 022	OUTLET 022	04/26/2019	PFOA	PFOA	0.049	49	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022	OUTLET 022	10/07/2019	PFOA	PFOA	0.049	49	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022	OUTLET 022	10/07/2019	Hfpo Dimer Acid	HFPO-DA	1.2	1200	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluorodecanoic Acid	PFDA	0.013	13	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluoroundecanoic Acid	PFUnA	0.01	10	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluorononanoic Acid	PFNA	0.015	15	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluoroheptanoic Acid	PFHpA	0.018	18	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluorotetradecanoic Acid	PFTeA	0.0037	3.7	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	PFOS	PFOS	0.0027	2.7	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluorotridecanoic Acid	PFTriA	0.0052	5.2	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluorododecanoic Acid	PFDoA	0.0062	6.2	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q19-OUTLET 022-A	OUTLET 022	10/07/2019	Perfluorohexanoic Acid	PFHxA	0.019	19	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022	OUTLET 022	05/08/2020	PFOA	PFOA	0.017	17	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022	OUTLET 022	05/08/2020	Hfpo Dimer Acid	HFPO-DA	2.9	2900	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluorodecanoic Acid	PFDA	0.013	13	Y	H	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	DONA	DONA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	PFOS	PFOS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluorotetradecanoic Acid	PFTeA	0.0034	3.4	Y	H	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluorononanoic Acid	PFNA	0.013	13	Y	H	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluoroheptanoic Acid	PFHpA	0.0063	6.3	Y	H	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluoroundecanoic Acid	PFUnA	0.019	19	Y	H	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluorohexanoic Acid	PFHxA	0.0092	9.2	Y	H	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluorododecanoic Acid	PFDoA	0.01	10	Y	H	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	Perfluorotridecanoic Acid	PFTriA	0.0081	8.1	Y	H	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2Q20-OUTLET 022-A	OUTLET 022	05/08/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U,H	UJ	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW3Q20-OUTLET 022	OUTLET 022	09/03/2020	PFOA	PFOA	0.075	75	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW3Q20-OUTLET 022	OUTLET 022	09/03/2020	Hfpo Dimer Acid	HFPO-DA	7.2	7200	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	PFOA	PFOA	0.042	42	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluorodecanoic Acid	PFDA	0.011	11	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	PFOS	PFOS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluorobutanoic Acid	PFBA	0.015	15	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluorononanoic Acid	PFNA	0.0064	6.4	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.0056	5.6	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.010	10	Y	I	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluoropentanoic Acid	PFPA	0.0057	5.7	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.016	16	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.0088	8.8	Y		J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.0048	4.8	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW2H20-OUTLET 022-A	OUTLET 022	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1Q21-OUTLET 022-A	OUTLET 022	02/28/2021	Hfpo Dimer Acid	HFPO-DA	0.74	740	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1Q21-OUTLET 022-A	OUTLET 022	02/28/2021	PFOA	PFOA	0.066	66	Y		J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	PFOA	PFOA	0.037	37	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluorodecanoic Acid	PFDA	0.0090	9	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	PFOS	PFOS	0.0021	2.1	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	Y	I	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluorobutanoic Acid	PFBA	0.010	10	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.0076	7.6	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluorononanoic Acid	PFNA	0.010	10	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.010	10	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluoropentanoic Acid	PFPA	0.0060	6	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.0081	8.1	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.0047	4.7	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.0028	2.8	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW1H21-OUTLET 022-A	OUTLET 022	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	PFOA	PFOA	0.027	27	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Hfpo Dimer Acid	HFPO-DA	0.65	650	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluorodecanoic Acid	PFDA	0.0043	4.3	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.0040	4	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluorobutanoic Acid	PFBA	0.013	13	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluoroheptanoic Acid	PFHpA	0.0072	7.2	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluorononanoic Acid	PFNA	0.0053	5.3	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.0081	8.1	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluorohexanoic Acid	PFHxA	0.011	11	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluoropentanoic Acid	PFPA	0.0061	6.1	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluorododecanoic Acid	PFDoA	0.0058	5.8	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	Perfluorotridecanoic Acid	PFTriA	0.0060	6	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q21-OUTLET 022	OUTLET 022	12/06/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0028	2.8	N	U		Liquid	FS	Other liquid

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	DONA	DONA	0.00715	7.15	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Hfpo Dimer Acid	HFPO-DA	0.834	834	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00179	1.79	N	U,F1		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00358	3.58	N	U,F1		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00358	3.58	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorobutanoic Acid	PFBA	0.0266	26.6	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorodecanoic Acid	PFDA	0.0114	11.4	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorododecanoic Acid	PFDoA	0.00494	4.94	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluoroheptanoic Acid	PFHpA	0.0234	23.4	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorohexanoic Acid	PFHxA	0.0647	64.7	Y	F1	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorononanesulfonic Acid	PFNS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorononanoic Acid	PFNA	0.0110	11	Y	F1	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorooctane Sulfonamide	PFOSA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluoropentanoic Acid	PFPA	0.0213	21.3	Y	I	J	Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorotetradecanoic Acid	PFTeA	0.00362	3.62	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluorotridecanoic Acid	PFTriA	0.00547	5.47	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	Perfluoroundecanoic Acid	PFUnA	0.0100	10	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	PFECA B	PFECA B	0.00358	3.58	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	PFECA-A	PFECA-A	0.00358	3.58	N	U,F1		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	PFECA-F	PFECA-F	0.00358	3.58	N	U		Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	PFOA	PFOA	0.200	200	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW4Q23-OUTLET 022-103023	OUTLET 022	10/30/2023	PFOS	PFOS	0.00236	2.36	Y			Liquid	FS	Other liquid	39.2644453532	-81.673333878
SW3Q18-OUTLET 023	OUTLET 023	09/17/2018	Hfpo Dimer Acid	HFPO-DA	0.071	71	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW3Q18-OUTLET 023	OUTLET 023	09/17/2018	PFOA	PFOA	0.045	45	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q18-OUTLET 023	OUTLET 023	11/15/2018	Hfpo Dimer Acid	HFPO-DA	0.25	250	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q18-OUTLET 023	OUTLET 023	11/15/2018	PFOA	PFOA	0.053	53	Y		J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1Q19-OUTLET 023	OUTLET 023	02/06/2019	Hfpo Dimer Acid	HFPO-DA	0.18	180	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1Q19-OUTLET 023	OUTLET 023	02/06/2019	PFOA	PFOA	0.065	65	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q19-OUTLET 023	OUTLET 023	04/26/2019	Hfpo Dimer Acid	HFPO-DA	0.28	280	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q19-OUTLET 023	OUTLET 023	04/26/2019	PFOA	PFOA	0.027	27	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023	OUTLET 023	10/07/2019	Hfpo Dimer Acid	HFPO-DA	0.64	640	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023	OUTLET 023	10/07/2019	PFOA	PFOA	0.051	51	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluorodecanoic Acid	PFDA	0.015	15	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluorododecanoic Acid	PFDoA	0.0097	9.7	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluoroheptanoic Acid	PFHpA	0.017	17	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0096	9.6	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluorohexanoic Acid	PFHxA	0.021	21	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluorononanoic Acid	PFNA	0.014	14	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluorotetradecanoic Acid	PFTeA	0.0046	4.6	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluorotridecanoic Acid	PFTriA	0.0082	8.2	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	Perfluoroundecanoic Acid	PFUnA	0.012	12	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q19-OUTLET 023-A	OUTLET 023	10/07/2019	PFOS	PFOS	0.037	37	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023	OUTLET 023	05/08/2020	Hfpo Dimer Acid	HFPO-DA	0.98	980	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023	OUTLET 023	05/08/2020	PFOA	PFOA	0.024	24	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	DONA	DONA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluorodecanoic Acid	PFDA	0.0032	3.2	Y	H	J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluorododecanoic Acid	PFDoA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluoroheptanoic Acid	PFHpA	0.0027	2.7	Y	H	J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluorohexanoic Acid	PFHxA	0.0038	3.8	Y	H	J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluorononanoic Acid	PFNA	0.0041	4.1	Y	H	J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluorotetradecanoic Acid	PFTeA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	Perfluoroundecanoic Acid	PFUnA	0.004	4	Y	H	J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2Q20-OUTLET 023-A	OUTLET 023	05/08/2020	PFOS	PFOS	0.0031	3.1	Y	H	J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW3Q20-OUTLET 023	OUTLET 023	09/03/2020	Hfpo Dimer Acid	HFPO-DA	0.68	680	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW3Q20-OUTLET 023	OUTLET 023	09/03/2020	PFOA	PFOA	0.030	30	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Hfpo Dimer Acid	HFPO-DA	0.24	240	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluorobutanoic Acid	PFBA	0.0041	4.1	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluorodecanoic Acid	PFDA	0.0016	1.6	Y	I	J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0028	2.8	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.0035	3.5	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluorononanoic Acid	PFNA	0.0017	1.7	Y	I	J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluoropentanoic Acid	PFPA	0.0033	3.3	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	PFOA	PFOA	0.022	22	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW2H20-OUTLET 023-A	OUTLET 023	11/11/2020	PFOS	PFOS	0.0065	6.5	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1Q21-OUTLET 023-A	OUTLET 023	02/28/2021	Hfpo Dimer Acid	HFPO-DA	0.52	520	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1Q21-OUTLET 023-A	OUTLET 023	02/28/2021	PFOA	PFOA	0.072	72	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Hfpo Dimer Acid	HFPO-DA	0.79	790	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluorobutanoic Acid	PFBA	0.0084	8.4	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluorodecanoic Acid	PFDA	0.0026	2.6	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.0085	8.5	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.022	22	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.0073	7.3	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluorononanoic Acid	PFNA	0.0044	4.4	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluoropentanoic Acid	PFPA	0.0092	9.2	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	PFOA	PFOA	0.060	60	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H21-OUTLET 023-A	OUTLET 023	08/18/2021	PFOS	PFOS	0.079	79	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Hfpo Dimer Acid	HFPO-DA	0.081	81	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluorobutanoic Acid	PFBA	0.0048	4.8	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluorodecanoic Acid	PFDA	0.0022	2.2	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluorododecanoic Acid	PFDoA	0.0025	2.5	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluoroheptanoic Acid	PFHpA	0.0026	2.6	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluorohexanoic Acid	PFHxA	0.0029	2.9	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluorononanoic Acid	PFNA	0.0026	2.6	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluoropentanoic Acid	PFPA	0.0026	2.6	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluorotridecanoic Acid	PFTriA	0.0028	2.8	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.0040	4	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	PFOA	PFOA	0.011	11	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q21-OUTLET 023	OUTLET 023	12/06/2021	PFOS	PFOS	0.0030	3	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1Q22-OUTLET 023	OUTLET 023	02/22/2022	Hfpo Dimer Acid	HFPO-DA	0.15	150	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1Q22-OUTLET 023	OUTLET 023	02/22/2022	PFOA	PFOA	0.024	24	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H22-OUTLET 023-A	OUTLET 023	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H22-OUTLET 023-A	OUTLET 023	07/18/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H22-OUTLET 023-A	OUTLET 023	07/18/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H22-OUTLET 023-A	OUTLET 023	07/18/2022	Hfpo Dimer Acid	HFPO-DA	0.25	250	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H22-OUTLET 023-A	OUTLET 023	07/18/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H22-OUTLET 023-A	OUTLET 023	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H22-OUTLET 023-A	OUTLET 023	07/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW1H22-OUTLET 023-A	OUTLET 023	07/18/2022	Perfluorobutanoic Acid	PFBA	0.0069	6.9

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluorododecanoic Acid	PFDoA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluoroheptanoic Acid	PFHpA	0.00273	2.73	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00579	5.79	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluorohexanoic Acid	PFHxA	0.00311	3.11	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluorononanesulfonic Acid	PFNS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluorononanoic Acid	PFNA	0.00248	2.48	Y		J	Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluorooctane Sulfonamide	PFOSA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluoropentanoic Acid	PFPA	0.00344	3.44	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluorotetradecanoic Acid	PFTeA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluorotridecanoic Acid	PFTriA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	Perfluoroundecanoic Acid	PFUnA	0.00172	1.72	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	PFECA B	PFECA B	0.00344	3.44	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	PFECA-A	PFECA-A	0.00344	3.44	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	PFECA-F	PFECA-F	0.00344	3.44	N	U		Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	PFOA	PFOA	0.0617	61.7	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW4Q23-OUTLET 023-103023	OUTLET 023	10/30/2023	PFOS	PFOS	0.0224	22.4	Y			Liquid	FS	Other liquid	39.2638897985	-81.676389437
SW3Q18-OUTLET 025	OUTLET 025	09/17/2018	Hfpo Dimer Acid	HFPO-DA	10	10000	Y		J	Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW3Q18-OUTLET 025	OUTLET 025	09/17/2018	PFOA	PFOA	0.067	67	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q18-OUTLET 025	OUTLET 025	11/15/2018	Hfpo Dimer Acid	HFPO-DA	0.71	710	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q18-OUTLET 025	OUTLET 025	11/15/2018	PFOA	PFOA	0.043	43	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q19-OUTLET 025	OUTLET 025	02/06/2019	Hfpo Dimer Acid	HFPO-DA	0.55	550	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q19-OUTLET 025	OUTLET 025	02/06/2019	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q19-OUTLET 025	OUTLET 025	04/26/2019	Hfpo Dimer Acid	HFPO-DA	0.54	540	Y		J	Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q19-OUTLET 025	OUTLET 025	04/26/2019	PFOA	PFOA	0.93	930	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluorotridecanoic Acid	PFTriA	0.0027	2.7	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluorododecanoic Acid	PFDoA	0.0037	3.7	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluorohexanoic Acid	PFHxA	0.0087	8.7	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluoroundecanoic Acid	PFUnA	0.0051	5.1	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluorononanoic Acid	PFNA	0.0078	7.8	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluoroheptanoic Acid	PFHpA	0.0069	6.9	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluorotetradecanoic Acid	PFTeA	0.0034	3.4	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	PFOS	PFOS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q19-OUTLET 025-A	OUTLET 025	10/31/2019	Perfluorodecanoic Acid	PFDA	0.0052	5.2	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q-OUTLET 025	OUTLET 025	10/31/2019	PFOA	PFOA	0.094	94	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW4Q-OUTLET 025	OUTLET 025	10/31/2019	Hfpo Dimer Acid	HFPO-DA	0.52	520	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025	OUTLET 025	05/20/2020	PFOA	PFOA	1.4	1400	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025	OUTLET 025	05/20/2020	Hfpo Dimer Acid	HFPO-DA	4.4	4400	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluorodecanoic Acid	PFDA	0.0064	6.4	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	DONA	DONA	0.002	2	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	PFOS	PFOS	0.002	2	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluorotetradecanoic Acid	PFTeA	0.002	2	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluoroheptanoic Acid	PFHpA	0.026	26	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluorononanoic Acid	PFNA	0.011	11	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluoroundecanoic Acid	PFUnA	0.0049	4.9	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluorohexanoic Acid	PFHxA	0.021	21	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluorododecanoic Acid	PFDoA	0.0021	2.1	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW2Q20-OUTLET 025-A	OUTLET 025	05/20/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q21-OUTLET 025-A	OUTLET 025	02/28/2021	Hfpo Dimer Acid	HFPO-DA	0.74	740	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q21-OUTLET 025-A	OUTLET 025	02/28/2021	PFOA	PFOA	0.076	76	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	DONA	DONA	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U,cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluorobutanoic Acid	PFBA	0.032	32	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluorodecanoic Acid	PFDA	0.0044	4.4	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluorododecanoic Acid	PFDoA	0.0033	3.3	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluoroheptanoic Acid	PFHpA	0.046	46	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluorohexanoic Acid	PFHxA	0.050	50	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluorononanoic Acid	PFNA	0.0097	9.7	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluoropentanoic Acid	PFPA	0.016	16	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluorotetradecanoic Acid	PFTeA	0.0032	3.2	Y	I,cn	J	Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluorotridecanoic Acid	PFTriA	0.0043	4.3	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	PFOA	PFOA	2.7	2700	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1Q22-OUTLET 025	OUTLET 025	02/22/2022	PFOS	PFOS	0.0034	3.4	Y	cn		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Hfpo Dimer Acid	HFPO-DA	0.60	600	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	PFOA	PFOA	0.095	95	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluorodecanoic Acid	PFDA	0.024	24	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	PFOS	PFOS	0.043	43	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.051	51	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y	I	J	Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluoroheptanoic Acid	PFHpA	0.014	14	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluorononanoic Acid	PFNA	0.017	17	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluorobutanoic Acid	PFBA	0.014	14	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluoroundecanoic Acid	PFUnA	0.048	48	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluoropentanoic Acid	PFPA	0.013	13	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluorohexanoic Acid	PFHxA	0.019	19	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluorododecanoic Acid	PFDoA	0.075	75	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.024	24	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	Perfluorotridecanoic Acid	PFTriA	0.038	38	Y			Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
SW1H22-OUTLET 025-A	OUTLET 025	07/18/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0028	2.8	N	U		Liquid	FS	Other liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	2-Perfluorodecylethanoic Acid	10:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	2-Perfluorohexylethanoic Acid	6:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	DONA	DONA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	EVE Acid	EVE Acid	0.0088	8.8	N	U,*-,cn	R	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Hydro-EVE Acid	Hydro-EVE Acid	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Hydrolyzed PSDA	Hydrolyzed PSDA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Hydro-PS Acid	Hydro-PS Acid	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	MTP	MTP	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0044	4.4	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	NVHOS, Acid Form	NVHOS, Acid Form	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	PEPA	PEPA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluorobutanoic Acid	PFBA	0.022	22	Y		J	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluorobutylsulphonamide	FBSA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluorodecanoic Acid	PFDA	0.0032	3.2	Y	I	J	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluoroheptanoic Acid	PFHpA	0.029	29	Y		J	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2647231282	-81.674722774
Outfall 025	OUTLET 025	01/03/2023	Perfluorohexane Sul

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW2Q20-OUTLET 030	OUTLET 030	05/08/2020	PFOA	PFOA	0.25	250	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	DONA	DONA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U,H	UJ	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluorodecanoic Acid	PFDA	0.021	21	Y	H	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluorododecanoic Acid	PFDoA	0.0077	7.7	Y	H	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluoroheptanoic Acid	PFHpA	0.05	50	Y	H	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.031	31	Y	H	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluorohexanoic Acid	PFHxA	0.048	48	Y	H	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluorononanoic Acid	PFNA	0.044	44	Y	H	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluorotetradecanoic Acid	PFTeA	0.0031	3.1	Y	H,I	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluorotridecanoic Acid	PFTriA	0.0054	5.4	Y	H	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	Perfluoroundecanoic Acid	PFUnA	0.02	20	Y	H	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2Q20-OUTLET 030-A	OUTLET 030	05/08/2020	PFOS	PFOS	0.032	32	Y	H	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW3Q20-OUTLET 030	OUTLET 030	09/03/2020	Hfpo Dimer Acid	HFPO-DA	16	16000	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW3Q20-OUTLET 030	OUTLET 030	09/03/2020	PFOA	PFOA	0.21	210	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Hfpo Dimer Acid	HFPO-DA	3.3	3300	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U	UJ	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluorobutanoic Acid	PFBA	0.030	30	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluorodecanoic Acid	PFDA	0.036	36	Y	I	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.012	12	Y	I	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.019	19	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0085	8.5	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.042	42	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluorononanoic Acid	PFNA	0.044	44	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluoropentanoic Acid	PFPA	0.023	23	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.0052	5.2	Y	I	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.0071	7.1	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.028	28	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	PFOA	PFOA	0.10	100	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW2H20-OUTLET 030-A	OUTLET 030	11/11/2020	PFOS	PFOS	0.018	18	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1Q21-OUTLET 030-A	OUTLET 030	02/28/2021	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1Q21-OUTLET 030-A	OUTLET 030	02/28/2021	PFOA	PFOA	0.31	310	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Hfpo Dimer Acid	HFPO-DA	0.94	940	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluorobutanoic Acid	PFBA	0.030	30	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluorodecanoic Acid	PFDA	0.025	25	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.0090	9	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.037	37	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.024	24	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.036	36	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluorononanoic Acid	PFNA	0.047	47	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluoropentanoic Acid	PFPA	0.027	27	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.011	11	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.0063	6.3	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.017	17	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	PFOA	PFOA	0.21	210	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H21-OUTLET 030-A	OUTLET 030	08/18/2021	PFOS	PFOS	0.036	36	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Hfpo Dimer Acid	HFPO-DA	6.4	6400	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluorobutanoic Acid	PFBA	0.098	98	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluorodecanoic Acid	PFDA	0.044	44	Y	I	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluorododecanoic Acid	PFDoA	0.022	22	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluoroheptanoic Acid	PFHpA	0.18	180	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.019	19	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluorononanoic Acid	PFNA	0.11	110	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluoropentanoic Acid	PFPA	0.14	140	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.017	17	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluorotridecanoic Acid	PFTriA	0.019	19	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.049	49	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	PFOA	PFOA	0.24	240	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q21-OUTLET 030	OUTLET 030	12/06/2021	PFOS	PFOS	0.024	24	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1Q22-OUTLET 030	OUTLET 030	02/22/2022	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1Q22-OUTLET 030	OUTLET 030	02/22/2022	PFOA	PFOA	0.15	150	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Hfpo Dimer Acid	HFPO-DA	0.95	950	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0025	2.5	Y	I	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluorobutanoic Acid	PFBA	0.023	23	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluorodecanoic Acid	PFDA	0.040	40	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluorododecanoic Acid	PFDoA	0.11	110	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluoroheptanoic Acid	PFHpA	0.023	23	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.041	41	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluorohexanoic Acid	PFHxA	0.035	35	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluorononanoic Acid	PFNA	0.029	29	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluoropentanoic Acid	PFPA	0.022	22	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.080	80	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluorotridecanoic Acid	PFTriA	0.059	59	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	Perfluoroundecanoic Acid	PFUnA	0.078	78	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	PFOA	PFOA	0.16	160	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW1H22-OUTLET 030-A	OUTLET 030	07/18/2022	PFOS	PFOS	0.076	76	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00750	7.5	N	U		LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.00750	7.5	N	U		LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	DONA	DONA	0.00750	7.5	N	U		LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Hfpo Dimer Acid	HFPO-DA	6.29	6290	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00187	1.87	N	U		LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00375	3.75	N	U		LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.00400	4	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluorobutanoic Acid	PFBA	0.0565	56.5	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluorodecanoic Acid	PFDA	0.0261	26.1	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluorododecanoic Acid	PFDoA	0.0128	12.8	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluoroheptanoic Acid	PFHpA	0.0721	72.1	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0386	38.6	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluorohexanoic Acid	PFHxA	0.0836	83.6	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluorononanoic Acid	PFNA	0.0673	67.3	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluoropentanoic Acid	PFPA	0.0812	81.2	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.0143	14.3	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluorotridecanoic Acid	PFTriA	0.0153	15.3	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	Perfluoroundecanoic Acid	PFUnA	0.0271	27.1	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	PFOA	PFOA	0.142	142	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
SW4Q22-OUTLET 030	OUTLET 030	11/11/2022	PFOS	PFOS	0.0415	41.5	Y			LIQUID	FS	Other liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0046	4.6	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0027	2.7	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	2-Perfluorodecylethanoic Acid	10:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	2-Perfluorohexylethanoic Acid	6:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0046	4.6	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	DONA	DONA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	EVE Acid	EVE Acid	0.0092	9.2	N	U,*-,cn	R	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	Hfpo Dimer Acid	HFPO-DA	3.0	3000	Y			LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	Hydro-EVE Acid	Hydro-EVE Acid	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	Hydrolyzed PSDA	Hydrolyzed PSDA	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	Hydro-PS Acid	Hydro-PS Acid	0.0018	1.8	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	MTP	MTP	0.0046	4.6	N	U	UJ	LIQUID	FS	Other Liquid	39.2725009067	-81.666389443
Outfall 030	OUTLET 030	01/03/2023	N-Ethyl Per

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0433	43.3	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00693	6.93	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0433	43.3	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00693	6.93	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	DONA	DONA	0.00693	6.93	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Hfpo Dimer Acid	HFPO-DA	2.26	2260	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00286	2.86	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorobutanoic Acid	PFBA	0.0471	47.1	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorodecanoic Acid	PFDA	0.0215	21.5	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorododecanoic Acid	PFDoA	0.00525	5.25	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluoroheptanoic Acid	PFHpA	0.0590	59	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0262	26.2	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorohexanoic Acid	PFHxA	0.0739	73.9	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorononanesulfonic Acid	PFNS	0.00173	1.73	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorononanoic Acid	PFNA	0.0700	70	Y		J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorooctane Sulfonamide	PFOSA	0.00182	1.82	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00284	2.84	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluoropentanoic Acid	PFPA	0.0619	61.9	Y	I	J	Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorotetradecanoic Acid	PFTeA	0.00529	5.29	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluorotridecanoic Acid	PFTriA	0.00758	7.58	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	Perfluoroundecanoic Acid	PFUnA	0.0185	18.5	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	PFECA B	PFECA B	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	PFECA-A	PFECA-A	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	PFECA-F	PFECA-F	0.00346	3.46	N	U		Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	PFOA	PFOA	0.191	191	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW4Q23-OUTLET 030-103023	OUTLET 030	10/30/2023	PFOS	PFOS	0.0306	30.6	Y			Liquid	FS	Other liquid	39.2725009067	-81.666389443
SW3Q18-OUTLET 031	OUTLET 031	09/17/2018	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW3Q18-OUTLET 031	OUTLET 031	09/17/2018	PFOA	PFOA	0.35	350	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q18-OUTLET 031	OUTLET 031	11/15/2018	Hfpo Dimer Acid	HFPO-DA	4.3	4300	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q18-OUTLET 031	OUTLET 031	11/15/2018	PFOA	PFOA	0.52	520	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1Q19-OUTLET 031	OUTLET 031	02/06/2019	Hfpo Dimer Acid	HFPO-DA	6.7	6700	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1Q19-OUTLET 031	OUTLET 031	02/06/2019	PFOA	PFOA	0.68	680	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q19-OUTLET 031	OUTLET 031	04/26/2019	Hfpo Dimer Acid	HFPO-DA	11	11000	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q19-OUTLET 031	OUTLET 031	04/26/2019	PFOA	PFOA	0.99	990	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031	OUTLET 031	10/07/2019	Hfpo Dimer Acid	HFPO-DA	8.5	8500	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031	OUTLET 031	10/07/2019	PFOA	PFOA	0.67	670	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluorodecanoic Acid	PFDA	0.092	92	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluorododecanoic Acid	PFDoA	0.023	23	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluoroheptanoic Acid	PFHpA	0.23	230	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0025	2.5	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluorohexanoic Acid	PFHxA	0.16	160	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluorononanoic Acid	PFNA	0.19	190	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluorotetradecanoic Acid	PFTeA	0.012	12	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluorotridecanoic Acid	PFTriA	0.017	17	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	Perfluoroundecanoic Acid	PFUnA	0.059	59	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q19-OUTLET 031-A	OUTLET 031	10/07/2019	PFOS	PFOS	0.0038	3.8	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031	OUTLET 031	05/08/2020	Hfpo Dimer Acid	HFPO-DA	39	39000	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031	OUTLET 031	05/08/2020	PFOA	PFOA	0.85	850	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	DONA	DONA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U,H	UJ	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluorodecanoic Acid	PFDA	0.06	60	Y	H	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluorododecanoic Acid	PFDoA	0.021	21	Y	H,I	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluoroheptanoic Acid	PFHpA	0.17	170	Y	H	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	Y	H	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluorohexanoic Acid	PFHxA	0.14	140	Y	H	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluorononanoic Acid	PFNA	0.13	130	Y	H	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluorotetradecanoic Acid	PFTeA	0.0084	8.4	Y	H,I	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluorotridecanoic Acid	PFTriA	0.015	15	Y	H	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	Perfluoroundecanoic Acid	PFUnA	0.058	58	Y	H	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2Q20-OUTLET 031-A	OUTLET 031	05/08/2020	PFOS	PFOS	0.005	5	Y	H	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW3Q20-OUTLET 031	OUTLET 031	09/03/2020	Hfpo Dimer Acid	HFPO-DA	150	150000	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW3Q20-OUTLET 031	OUTLET 031	09/03/2020	PFOA	PFOA	0.63	630	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Hfpo Dimer Acid	HFPO-DA	16	16000	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U	UJ	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluorobutanoic Acid	PFBA	0.076	76	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluorodecanoic Acid	PFDA	0.086	86	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.035	35	Y	I	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.063	63	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluorononanoic Acid	PFNA	0.13	130	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluoropentanoic Acid	PFPA	0.080	80	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.019	19	Y	I	J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.025	25	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.090	90	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	PFOA	PFOA	0.29	290	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW2H20-OUTLET 031-A	OUTLET 031	11/11/2020	PFOS	PFOS	0.0028	2.8	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1Q21-OUTLET 031-A	OUTLET 031	02/28/2021	Hfpo Dimer Acid	HFPO-DA	9.9	9900	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1Q21-OUTLET 031-A	OUTLET 031	02/28/2021	PFOA	PFOA	0.44	440	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Hfpo Dimer Acid	HFPO-DA	2.1	2100	Y		J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluorobutanoic Acid	PFBA	0.079	79	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluorodecanoic Acid	PFDA	0.051	51	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.014	14	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.085	85	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluorononanoic Acid	PFNA	0.12	120	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluoropentanoic Acid	PFPA	0.082	82	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.011	11	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.013	13	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.045	45	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	PFOA	PFOA	0.28	280	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H21-OUTLET 031-A	OUTLET 031	08/18/2021	PFOS	PFOS	0.0034	3.4	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Hfpo Dimer Acid	HFPO-DA	17	17000	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluorobutanoic Acid	PFBA	0.25	250	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluorodecanoic Acid	PFDA	0.12	120	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluorododecanoic Acid	PFDoA	0.061	61	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluoroheptanoic Acid	PFHpA	0.54	540	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0022	2.2	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluorohexanoic Acid	PFHxA	0.33	330	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluorononanoic Acid	PFNA	0.35	350	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluoropentanoic Acid	PFPA	0.44	440	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.046	46	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluorotridecanoic Acid	PFTriA	0.060	60	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.17	170	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	PFOA	PFOA	0.48	480	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q21-OUTLET 031	OUTLET 031	12/06/2021	PFOS	PFOS	0.0032	3.2	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1Q22-OUTLET 031	OUTLET 031	02/22/2022	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1Q22-OUTLET 031	OUTLET 031	02/22/2022	PFOA	PFOA	0.15	150	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H22-OUTLET 031-A	OUTLET 031	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.017	17	N	U,cn		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H22-OUTLET 031-A	OUTLET 031	07/18/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.017	17	N	U,cn		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H22-OUTLET 031-A	OUTLET 031	07/18/2022	DONA	DONA	0.017	17	N	U,cn		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H22-OUTLET 031-A	OUTLET 031	07/18/2022	Hfpo Dimer Acid	HFPO-DA	5.3	5300	Y	cn		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H22-OUTLET 031-A	OUTLET 031	07/18/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.025	25	N	U,cn		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW1H22-OUTLET 031-A	OUTLET 031	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	N

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorobutanoic Acid	PFBA	0.137	137	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorodecanoic Acid	PFDA	0.0533	53.3	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorododecanoic Acid	PFDoA	0.0107	10.7	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluoroheptanoic Acid	PFHpA	0.217	217	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00254	2.54	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorohexanoic Acid	PFHxA	0.185	185	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorononanesulfonic Acid	PFNS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorononanoic Acid	PFNA	0.255	255	Y		J	Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorooctane Sulfonamide	PFOSA	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00175	1.75	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluoropentanoic Acid	PFPA	0.212	212	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorotetradecanoic Acid	PFTeA	0.00741	7.41	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluorotridecanoic Acid	PFTriA	0.0148	14.8	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	Perfluoroundecanoic Acid	PFUnA	0.0457	45.7	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	PFECA B	PFECA B	0.00349	3.49	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	PFECA-A	PFECA-A	0.00543	5.43	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	PFECA-F	PFECA-F	0.00349	3.49	N	U		Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	PFOA	PFOA	0.372	372	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW4Q23-OUTLET 031-103023	OUTLET 031	10/30/2023	PFOS	PFOS	0.00324	3.24	Y			Liquid	FS	Other liquid	39.272223124	-81.668611662
SW3Q18-OUTLET 032	OUTLET 032	09/17/2018	Hfpo Dimer Acid	HFPO-DA	4.4	4400	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW3Q18-OUTLET 032	OUTLET 032	09/17/2018	PFOA	PFOA	0.75	750	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q18-OUTLET 032	OUTLET 032	11/15/2018	Hfpo Dimer Acid	HFPO-DA	7.0	7000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q18-OUTLET 032	OUTLET 032	11/15/2018	PFOA	PFOA	0.97	970	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1Q19-OUTLET 032	OUTLET 032	02/06/2019	Hfpo Dimer Acid	HFPO-DA	15	15000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1Q19-OUTLET 032	OUTLET 032	02/06/2019	PFOA	PFOA	1.5	1500	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q19-OUTLET 032	OUTLET 032	04/26/2019	Hfpo Dimer Acid	HFPO-DA	18	18000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q19-OUTLET 032	OUTLET 032	04/26/2019	PFOA	PFOA	1.9	1900	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032	OUTLET 032	10/07/2019	Hfpo Dimer Acid	HFPO-DA	19	19000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032	OUTLET 032	10/07/2019	PFOA	PFOA	1.4	1400	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	DONA	DONA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	Y		J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluorodecanoic Acid	PFDA	0.15	150	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluorododecanoic Acid	PFDoA	0.059	59	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluoroheptanoic Acid	PFHpA	0.4	400	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0053	5.3	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluorohexanoic Acid	PFHxA	0.29	290	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluorononanoic Acid	PFNA	0.34	340	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluorotetradecanoic Acid	PFTeA	0.032	32	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluorotridecanoic Acid	PFTriA	0.038	38	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	Perfluoroundecanoic Acid	PFUnA	0.15	150	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q19-OUTLET 032-A	OUTLET 032	10/07/2019	PFOS	PFOS	0.0076	7.6	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032	OUTLET 032	05/08/2020	Hfpo Dimer Acid	HFPO-DA	87	87000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032	OUTLET 032	05/08/2020	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	DONA	DONA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U,H	UJ	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluorodecanoic Acid	PFDA	0.091	91	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluorododecanoic Acid	PFDoA	0.034	34	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluoroheptanoic Acid	PFHpA	0.24	240	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0032	3.2	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluorohexanoic Acid	PFHxA	0.21	210	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluorononanoic Acid	PFNA	0.24	240	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluorotetradecanoic Acid	PFTeA	0.014	14	Y	H,I	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluorotridecanoic Acid	PFTriA	0.027	27	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	Perfluoroundecanoic Acid	PFUnA	0.09	90	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2Q20-OUTLET 032-A	OUTLET 032	05/08/2020	PFOS	PFOS	0.0083	8.3	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW3Q20-OUTLET 032	OUTLET 032	09/03/2020	Hfpo Dimer Acid	HFPO-DA	440	440000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW3Q20-OUTLET 032	OUTLET 032	09/03/2020	PFOA	PFOA	0.91	910	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Hfpo Dimer Acid	HFPO-DA	61	61000	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluorobutanoic Acid	PFBA	0.14	140	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluorodecanoic Acid	PFDA	0.18	180	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.099	99	Y	I	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.12	120	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0035	3.5	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.16	160	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluorononanoic Acid	PFNA	0.22	220	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluoropentanoic Acid	PFPA	0.14	140	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.048	48	Y	I	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.074	74	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.23	230	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	PFOA	PFOA	0.65	650	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW2H20-OUTLET 032-A	OUTLET 032	11/11/2020	PFOS	PFOS	0.011	11	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1Q21-OUTLET 032-A	OUTLET 032	02/28/2021	Hfpo Dimer Acid	HFPO-DA	30	30000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1Q21-OUTLET 032-A	OUTLET 032	02/28/2021	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Hfpo Dimer Acid	HFPO-DA	19	19000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluorobutanoic Acid	PFBA	0.14	140	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluorodecanoic Acid	PFDA	0.095	95	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.033	33	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.18	180	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0086	8.6	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.16	160	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluorononanoic Acid	PFNA	0.21	210	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluoropentanoic Acid	PFPA	0.15	150	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.026	26	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.035	35	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.095	95	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	PFOA	PFOA	0.94	940	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H21-OUTLET 032-A	OUTLET 032	08/18/2021	PFOS	PFOS	0.015	15	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	DONA	DONA	0.0020	2	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Hfpo Dimer Acid	HFPO-DA	38	38000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluorobutanoic Acid	PFBA	0.39	390	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluorodecanoic Acid	PFDA	0.24	240	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluorododecanoic Acid	PFDoA	0.11	110	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluoroheptanoic Acid	PFHpA	0.92	920	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0037	3.7	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluorohexanoic Acid	PFHxA	0.51	510	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluorononanoic Acid	PFNA	0.70	700	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluoropentanoic Acid	PFPA	0.74	740	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.091	91	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluorotridecanoic Acid	PFTriA	0.086	86	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.33	330	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q21-OUTLET 032	OUTLET 032	12/06/2021	PFOS	PFOS	0.0073	7.3	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1Q22-OUTLET 032	OUTLET 032	02/22/2022	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y	H	J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1Q22-OUTLET 032	OUTLET 032	02/22/2022	PFOA	PFOA	0.15	150	Y	cn		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.017	17	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.017	17	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	DONA	DONA	0.017	17	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Hfpo Dimer Acid	HFPO-DA	4.0	4000	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.026	26	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.017	17	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.017	17	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluorobutanoic Acid	PFBA	0.80	800	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluorodecanoic Acid	PFDA	0.25	250	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluorododecanoic Acid	PFDoA	0.22	220	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluoroheptanoic Acid	PFHpA	0.20	200	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.017	17	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluorohexanoic Acid	PFHxA	0.81	810	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluorononanoic Acid	PFNA	0.20	200	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluoropentanoic Acid	PFPA	1.1	1100	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.13	130	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluorotridecanoic Acid	PFTriA	0.25	250	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	Perfluoroundecanoic Acid	PFUnA	0.22	220	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW1H22-OUTLET 032-A	OUTLET 032	07/18/2022	PFOA	PFOA	0.66

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00269	2.69	N	U	UJ	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	Perfluoropentanoic Acid	PFPA	0.355	355	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	Perfluorotetradecanoic Acid	PFTeA	0.0213	21.3	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	Perfluorotridecanoic Acid	PFTriA	0.0465	46.5	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	Perfluoroundecanoic Acid	PFUnA	0.147	147	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	PFECA B	PFECA B	0.351	351	N	U		Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	PFECA-A	PFECA-A	0.00631	6.31	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	PFECA-F	PFECA-F	0.00505	5.05	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	PFOA	PFOA	0.657	657	Y		J	Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW4Q23-OUTLET 032-103023	OUTLET 032	10/30/2023	PFOS	PFOS	0.00939	9.39	Y			Liquid	FS	Other liquid	39.2722231244	-81.670000553
SW3Q18-OUTLET 033	OUTLET 033	09/17/2018	Hfpo Dimer Acid	HFPO-DA	5.9	5900	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW3Q18-OUTLET 033	OUTLET 033	09/17/2018	PFOA	PFOA	2.3	2300	Y	*	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q18-OUTLET 033	OUTLET 033	11/15/2018	Hfpo Dimer Acid	HFPO-DA	15	15000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q18-OUTLET 033	OUTLET 033	11/15/2018	PFOA	PFOA	6.4	6400	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q19-OUTLET 033	OUTLET 033	02/06/2019	Hfpo Dimer Acid	HFPO-DA	15	15000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q19-OUTLET 033	OUTLET 033	02/06/2019	PFOA	PFOA	6.2	6200	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q19-OUTLET 033	OUTLET 033	04/26/2019	Hfpo Dimer Acid	HFPO-DA	27	27000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q19-OUTLET 033	OUTLET 033	04/26/2019	PFOA	PFOA	12	12000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033	OUTLET 033	10/07/2019	Hfpo Dimer Acid	HFPO-DA	27	27000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033	OUTLET 033	10/07/2019	PFOA	PFOA	25	25000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluorodecanoic Acid	PFDA	0.33	330	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluorododecanoic Acid	PFDoA	0.12	120	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluoroheptanoic Acid	PFHpA	0.96	960	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluorohexanoic Acid	PFHxA	0.58	580	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluorononanoic Acid	PFNA	0.82	820	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluorotetradecanoic Acid	PFTeA	0.054	54	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluorotridecanoic Acid	PFTriA	0.067	67	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	Perfluoroundecanoic Acid	PFUnA	0.3	300	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q19-OUTLET 033-A	OUTLET 033	10/07/2019	PFOS	PFOS	0.004	4	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033	OUTLET 033	03/19/2020	Hfpo Dimer Acid	HFPO-DA	30	30000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033	OUTLET 033	03/19/2020	PFOA	PFOA	28	28000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	DONA	DONA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluorodecanoic Acid	PFDA	0.25	250	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluorododecanoic Acid	PFDoA	0.039	39	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluoroheptanoic Acid	PFHpA	0.88	880	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	<		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluorohexanoic Acid	PFHxA	0.34	340	Y		J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluorononanoic Acid	PFNA	0.85	850	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluorotetradecanoic Acid	PFTeA	0.021	21	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluorotridecanoic Acid	PFTriA	0.042	42	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	Perfluoroundecanoic Acid	PFUnA	0.21	210	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q20-OUTLET 033-A	OUTLET 033	03/19/2020	PFOS	PFOS	0.0039	3.9	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033	OUTLET 033	05/08/2020	Hfpo Dimer Acid	HFPO-DA	39	39000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033	OUTLET 033	05/08/2020	PFOA	PFOA	16	16000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	DONA	DONA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U,H	UJ	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluorodecanoic Acid	PFDA	0.36	360	Y	H	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluorododecanoic Acid	PFDoA	0.094	94	Y	H	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluoroheptanoic Acid	PFHpA	0.71	710	Y	H	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluorohexanoic Acid	PFHxA	0.49	490	Y	H	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluorononanoic Acid	PFNA	1.1	1100	Y	H	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluorotetradecanoic Acid	PFTeA	0.024	24	Y	H,I	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluorotridecanoic Acid	PFTriA	0.056	56	Y	H	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	Perfluoroundecanoic Acid	PFUnA	0.29	290	Y	H	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2Q20-OUTLET 033-A	OUTLET 033	05/08/2020	PFOS	PFOS	0.0038	3.8	Y	H	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW3Q20-OUTLET 033	OUTLET 033	09/03/2020	Hfpo Dimer Acid	HFPO-DA	69	69000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW3Q20-OUTLET 033	OUTLET 033	09/03/2020	PFOA	PFOA	19	19000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.016	16	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.016	16	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	DONA	DONA	0.016	16	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Hfpo Dimer Acid	HFPO-DA	18	18000	Y		J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.024	24	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.016	16	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.016	16	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluorobutanoic Acid	PFBA	0.35	350	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluorodecanoic Acid	PFDA	0.27	270	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.10	100	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.40	400	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.016	16	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.40	400	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluorononanoic Acid	PFNA	0.54	540	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluoropentanoic Acid	PFPA	0.37	370	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.083	83	Y	I,F1	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.11	110	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.37	370	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	PFOA	PFOA	2.0	2000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW2H20-OUTLET 033-A	OUTLET 033	11/11/2020	PFOS	PFOS	0.016	16	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q21-OUTLET 033-A	OUTLET 033	02/28/2021	Hfpo Dimer Acid	HFPO-DA	17	17000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q21-OUTLET 033-A	OUTLET 033	02/28/2021	PFOA	PFOA	3.8	3800	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Hfpo Dimer Acid	HFPO-DA	19	19000	Y		J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluorobutanoic Acid	PFBA	0.35	350	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluorodecanoic Acid	PFDA	0.25	250	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.072	72	Y		J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.56	560	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.43	430	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluorononanoic Acid	PFNA	0.57	570	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluoropentanoic Acid	PFPA	0.38	380	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.057	57	Y	F1	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.071	71	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.21	210	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	PFOA	PFOA	18	18000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H21-OUTLET 033-A	OUTLET 033	08/18/2021	PFOS	PFOS	0.0034	3.4	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Hfpo Dimer Acid	HFPO-DA	30	30000	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U	UJ	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluorobutanoic Acid	PFBA	0.83	830	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluorodecanoic Acid	PFDA	0.36	360	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluorododecanoic Acid	PFDoA	0.16	160	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluoroheptanoic Acid	PFHpA	1.7	1700	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluorohexanoic Acid	PFHxA	1.1	1100	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluorononanoic Acid	PFNA	1.1	1100	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluoropentanoic Acid	PFPA	1.4	1400	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.084	84	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluorotridecanoic Acid	PFTriA	0.10	100	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.43	430	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	PFOA	PFOA	9.6	9600	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q21-OUTLET 033	OUTLET 033	12/06/2021	PFOS	PFOS	0.0019	1.9	Y	cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q22-OUTLET 033	OUTLET 033	02/22/2022	Hfpo Dimer Acid	HFPO-DA	26	26000	Y	cn	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1Q22-OUTLET 033	OUTLET 033	02/22/2022	PFOA	PFOA	0.87	870	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	DONA	DONA	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U,cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	Perfluorobutanoic Acid	PFBA	0.41	410	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	Perfluorodecanoic Acid	PFDA	0.12	120	Y	cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	Perfluorododecanoic Acid	PFDoA	0.13	130	Y	cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	Perfluoroheptanoic Acid	PFHpA	0.10	100	Y	cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	Perfluorohexanoic Acid	PFHxA	0.45	450	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW1H22-OUTLET 033-A	OUTLET 033	07/18/2022	Perfluorononanoic Acid	PFNA	0

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
Outfall 033	OUTLET 033	01/03/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.050	50	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	NVHOS, Acid Form	NVHOS, Acid Form	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PEPA	PEPA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorobutanoic Acid	PFBA	0.25	250	Y	cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorobutylsulphonamide	FBSA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorodecanoic Acid	PFDA	0.45	450	Y	cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorododecanoic Acid	PFDoA	0.19	190	Y	I,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluoroheptanoic Acid	PFHpA	0.76	760	Y	cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.030	30	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorohexanesulfonamide	FHXSA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorohexanoic Acid	PFHxA	0.40	400	Y	cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorononanesulfonic Acid	PFNS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorononanoic Acid	PFNA	0.89	890	Y	F1,cn	J	LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorooctadecanoic Acid	PFODA	0.030	30	N	U,F2,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorooctane Sulfonamide	PFOSA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluoropentanoic Acid	PFPA	0.60	600	Y	F1,cn	J	LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluoropropanesulfonic Acid	PFPrS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorotetradecanoic Acid	PFTeA	0.045	45	Y	cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluorotridecanoic Acid	PFTriA	0.12	120	Y	cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	Perfluoroundecanoic Acid	PFUnA	0.57	570	Y	cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFECA B	PFECA B	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFECA-A	PFECA-A	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFECA-F	PFECA-F	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFECA-G	PFECA-G	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFMOAA	PFMOAA	0.68	680	Y	F1,*-,cn	J	LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFO2HxA	PFO2HxA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFO3OA	PFO3OA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFO4DA	PFO4DA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFO5DA	PFO5DA	0.050	50	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFOA	PFOA	0.71	710	Y	cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PFOS	PFOS	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PMPA	PMPA	0.033	33	Y	cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PPF Acid	PPF Acid	0.35	350	Y	F1,cn	J	LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	PS Acid	PS Acid	0.10	100	N	U,F1,*-,cn	R	LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	R-EVE	R-EVE	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	R-PSDA	R-PSDA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033	OUTLET 033	01/03/2023	R-PSDCA	R-PSDCA	0.020	20	N	U,cn		LIQUID	FS	Other Liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	1,1,2,2,3,3,4,4,4-Nonafluoro-n,N-bis(2-hydroxyethyl)butane-1	FBSEE	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	10:2 Fluorotelomer sulfonate	10:2 FTS	0.050	50	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.030	30	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.030	30	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.030	30	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	2H-Perfluoro-2-decenoic Acid	8:2 FTUCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	2H-Perfluoro-2-dodecenoic Acid	10:2 FTUCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	2H-Perfluoro-2-octenoic Acid	6:2 FTUCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	2-Perfluorodecylethanoic Acid	10:2 FTCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	2-Perfluorohexylethanoic Acid	6:2 FTCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	2-Perfluorooctylethanoic Acid	8:2 FTCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.050	50	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	DONA	DONA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	EVE Acid	EVE Acid	0.099	99	N	U,*-,cn	R	Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Hfpo Dimer Acid	HFPO-DA	15	15000	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Hydro-EVE Acid	Hydro-EVE Acid	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Hydrolyzed PSDA	Hydrolyzed PSDA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Hydro-PS Acid	Hydro-PS Acid	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	MTP	MTP	0.050	50	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.030	30	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.050	50	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.030	30	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	NVHOS, Acid Form	NVHOS, Acid Form	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PEPA	PEPA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluoro-4-ethylcyclohexanesulfonic Acid	PFECHS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorobutanoic Acid	PFBA	0.22	220	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorobutylsulphonamide	FBSA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorodecanoic Acid	PFDA	0.43	430	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.030	30	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorododecanoic Acid	PFDoA	0.21	210	Y	I,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluoroheptanoic Acid	PFHpA	0.69	690	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.030	30	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorohexanesulfonamide	FHXSA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorohexanoic Acid	PFHxA	0.36	360	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorononanesulfonic Acid	PFNS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorononanoic Acid	PFNA	0.81	810	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorooctadecanoic Acid	PFODA	0.030	30	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorooctane Sulfonamide	PFOSA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluoropentanoic Acid	PFPA	0.48	480	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluoropropanesulfonic Acid	PFPrS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorotetradecanoic Acid	PFTeA	0.050	50	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluorotridecanoic Acid	PFTriA	0.13	130	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	Perfluoroundecanoic Acid	PFUnA	0.59	590	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFECA B	PFECA B	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFECA-A	PFECA-A	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFECA-F	PFECA-F	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFECA-G	PFECA-G	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFMOAA	PFMOAA	0.55	550	Y	*-,cn	J	Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFO2HxA	PFO2HxA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFO3OA	PFO3OA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFO4DA	PFO4DA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFO5DA	PFO5DA	0.050	50	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFOA	PFOA	0.65	650	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PFOS	PFOS	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PMPA	PMPA	0.029	29	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PPF Acid	PPF Acid	0.28	280	Y	cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	PS Acid	PS Acid	0.099	99	N	U,*-,cn	R	Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	R-EVE	R-EVE	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	R-PSDA	R-PSDA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
Outfall 033-D	OUTLET 033	01/03/2023	R-PSDCA	R-PSDCA	0.020	20	N	U,cn		Liquid	DUP	Other liquid	39.27194535	-81.671389436
SW20232H-OUTLET 033-A	OUTLET 033	02/16/2023	Hfpo Dimer Acid	HFPO-DA	18.9	18900	Y			LIQUID	FS	Other Liquid	39.27194535	-81.671389436
SW20232H-OUTLET 033-A	OUTLET 033	02/16/2023	PFOA	PFOA	4.83	4830	Y			LIQUID	FS	Other Liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00705	7.05	N	U,F1		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00705	7.05	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00705	7.05	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0176	17.6	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0176	17.6	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00882	8.82	N	U,F1		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0441	44.1	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00705	7.05	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0441	44.1	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00705	7.05	N	U,F1		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	DONA	DONA	0.00705	7.05	N	U,F1		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Hfpo Dimer Acid	HFPO-DA	21.4	21400	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U,F1,F2		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00353	3.53	N	U,F1,F2		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00353	3.53	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorobutane Sulfonic Acid	PFBS	0.176	176	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorobutanoic Acid	PFBA	0.570	570	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorodecanoic Acid	PFDA	0.274	274	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorododecanoic Acid	PFDoA	0.0611	61.1	Y	F1	J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluoroheptanoic Acid	PFHpA	1.24	1240	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorohexanoic Acid	PFHxA	0.873	873	Y			Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorononanesulfonic Acid	PFNS	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorononanoic Acid	PFNA	0.895	895	Y		J	Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		Liquid	FS	Other liquid	39.27194535	-81.671389436
SW4Q23-OUTLET 033-103023	OUTLET 033	10/30/2023	Perflu

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1Q20-OUTLET 034-A	OUTLET 034	03/19/2020	Perfluoroundecanoic Acid	PFUnA	0.087	87	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1Q20-OUTLET 034-A	OUTLET 034	03/19/2020	PFOS	PFOS	0.0027	2.7	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034	OUTLET 034	05/08/2020	Hfpo Dimer Acid	HFPO-DA	9.7	9700	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034	OUTLET 034	05/08/2020	PFOA	PFOA	5.3	5300	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	DONA	DONA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U,H	UJ	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluorodecanoic Acid	PFDA	0.2	200	Y	H	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluorododecanoic Acid	PFDoA	0.076	76	Y	H	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluoroheptanoic Acid	PFHpA	0.24	240	Y	H	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluorohexanoic Acid	PFHxA	0.71	710	Y	H	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluorononanoic Acid	PFNA	0.32	320	Y	H	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluorotetradecanoic Acid	PFTeA	0.021	21	Y	H	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluorotridecanoic Acid	PFTriA	0.043	43	Y	H	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	Perfluoroundecanoic Acid	PFUnA	0.22	220	Y	H	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2Q20-OUTLET 034-A	OUTLET 034	05/08/2020	PFOS	PFOS	0.0022	2.2	Y	H	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW3Q20-OUTLET 034	OUTLET 034	09/03/2020	Hfpo Dimer Acid	HFPO-DA	9.1	9100	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW3Q20-OUTLET 034	OUTLET 034	09/03/2020	PFOA	PFOA	5.8	5800	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.016	16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.016	16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	DONA	DONA	0.016	16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Hfpo Dimer Acid	HFPO-DA	5.1	5100	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.024	24	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.016	16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.016	16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluorobutanoic Acid	PFBA	0.75	750	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluorodecanoic Acid	PFDA	0.16	160	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.052	52	Y	I	J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.26	260	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.016	16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.76	760	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluorononanoic Acid	PFNA	0.25	250	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluoropentanoic Acid	PFPA	0.56	560	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.016	16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.050	50	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.15	150	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	PFOA	PFOA	4.4	4400	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW2H20-OUTLET 034-A	OUTLET 034	11/11/2020	PFOS	PFOS	0.016	16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1Q21-OUTLET 034-A	OUTLET 034	02/28/2021	Hfpo Dimer Acid	HFPO-DA	2.0	2000	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1Q21-OUTLET 034-A	OUTLET 034	02/28/2021	PFOA	PFOA	1.4	1400	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluorobutanoic Acid	PFBA	0.41	410	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluorodecanoic Acid	PFDA	0.13	130	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.032	32	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.40	400	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluorononanoic Acid	PFNA	0.22	220	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluoropentanoic Acid	PFPA	0.21	210	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.028	28	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.033	33	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.11	110	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	PFOA	PFOA	2.3	2300	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H21-OUTLET 034-A	OUTLET 034	08/18/2021	PFOS	PFOS	0.0040	4	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Hfpo Dimer Acid	HFPO-DA	16	16000	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034-A	OUTLET 034	12/06/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034-A	OUTLET 034	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034-A	OUTLET 034	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034-A	OUTLET 034	12/06/2021	Perfluorobutanoic Acid	PFBA	1.2	1200	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluorodecanoic Acid	PFDA	0.18	180	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluorododecanoic Acid	PFDoA	0.090	90	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluoroheptanoic Acid	PFHpA	0.76	760	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluorohexanoic Acid	PFHxA	1.0	1000	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluorononanoic Acid	PFNA	0.46	460	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluoropentanoic Acid	PFPA	1.1	1100	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.086	86	Y		J	Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluorotridecanoic Acid	PFTriA	0.032	32	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.21	210	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	PFOA	PFOA	5.6	5600	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q21-OUTLET 034	OUTLET 034	12/06/2021	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1Q22-OUTLET 034	OUTLET 034	02/22/2022	Hfpo Dimer Acid	HFPO-DA	5.1	5100	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1Q22-OUTLET 034	OUTLET 034	02/22/2022	PFOA	PFOA	14	14000	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	DONA	DONA	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Hfpo Dimer Acid	HFPO-DA	3.1	3100	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U,cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluorobutanoic Acid	PFBA	0.12	120	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluorodecanoic Acid	PFDA	0.046	46	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluorododecanoic Acid	PFDoA	0.11	110	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluoroheptanoic Acid	PFHpA	0.052	52	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U,cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluorohexanoic Acid	PFHxA	0.13	130	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluorononanoic Acid	PFNA	0.050	50	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluoropentanoic Acid	PFPA	0.21	210	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.059	59	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluorotridecanoic Acid	PFTriA	0.16	160	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	Perfluoroundecanoic Acid	PFUnA	0.087	87	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	PFOA	PFOA	0.22	220	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW1H22-OUTLET 034-A	OUTLET 034	07/18/2022	PFOS	PFOS	0.0023	2.3	Y	cn		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00724	7.24	N	U		LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.00724	7.24	N	U		LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	DONA	DONA	0.00724	7.24	N	U		LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Hfpo Dimer Acid	HFPO-DA	7.48	7480	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00181	1.81	N	U		LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00362	3.62	N	U		LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.00181	1.81	N	U		LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluorobutanoic Acid	PFBA	0.180	180	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluorodecanoic Acid	PFDA	0.0292	29.2	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluorododecanoic Acid	PFDoA	0.0740	74	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluoroheptanoic Acid	PFHpA	0.112	112	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.00181	1.81	N	U		LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluorohexanoic Acid	PFHxA	0.129	129	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluorononanoic Acid	PFNA	0.0692	69.2	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluoropentanoic Acid	PFPA	1.64	1640	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.0567	56.7	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluorotridecanoic Acid	PFTriA	0.141	141	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	Perfluoroundecanoic Acid	PFUnA	0.0479	47.9	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	PFOA	PFOA	0.210	210	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q22-OUTLET 034	OUTLET 034	11/11/2022	PFOS	PFOS	0.00181	1.81	N	U		LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW20232H-OUTLET 034-A	OUTLET 034	02/16/2023	Hfpo Dimer Acid	HFPO-DA	7.05	7050	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW20232H-OUTLET 034-A	OUTLET 034	02/16/2023	PFOA	PFOA	2.19	2190	Y			LIQUID	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00716	7.16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00716	7.16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00716	7.16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0179	17.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0179	17.9	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00895	8.95	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0447	44.7	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00716	7.16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0447	44.7	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00716	7.16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	DONA	DONA	0.00716	7.16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	Hfpo Dimer Acid	HFPO-DA	5.69	5690	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00716	7.16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	DONA	DONA	0.00716	7.16	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	Hfpo Dimer Acid	HFPO-DA	5.69	5690	Y			Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00179	1.79	N	U		Liquid	FS	Other liquid	39.2716675758	-81.673056105
SW4Q23-OUTLET 034-103023	OUTLET 034	10/30/2023	N-Methyl Perfluorooctane Sulf

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
SW1Q20-OUTLET 036-A	OUTLET 036	03/19/2020	Perfluoroheptanoic Acid	PFHpA	0.034	34	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q20-OUTLET 036-A	OUTLET 036	03/19/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0021	2.1	N	<		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q20-OUTLET 036-A	OUTLET 036	03/19/2020	Perfluorohexanoic Acid	PFHxA	0.018	18	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q20-OUTLET 036-A	OUTLET 036	03/19/2020	Perfluorononanoic Acid	PFNA	0.022	22	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q20-OUTLET 036-A	OUTLET 036	03/19/2020	Perfluorotetradecanoic Acid	PFTeA	0.0076	7.6	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q20-OUTLET 036-A	OUTLET 036	03/19/2020	Perfluorotridecanoic Acid	PFTriA	0.019	19	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q20-OUTLET 036-A	OUTLET 036	03/19/2020	Perfluoroundecanoic Acid	PFUnA	0.021	21	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q20-OUTLET 036-A	OUTLET 036	03/19/2020	PFOS	PFOS	0.0021	2.1	N	<		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036	OUTLET 036	05/08/2020	Hfpo Dimer Acid	HFPO-DA	12	12000	Y		J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036	OUTLET 036	05/08/2020	PFOA	PFOA	0.34	340	Y	F1	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	DONA	DONA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.003	3	N	U,H	UJ	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluorodecanoic Acid	PFDA	0.0091	9.1	Y	H	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluorododecanoic Acid	PFDoA	0.0092	9.2	Y	H	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y	H	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluorohexanoic Acid	PFHxA	0.072	72	Y	H	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluorononanoic Acid	PFNA	0.013	13	Y	H	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluorotetradecanoic Acid	PFTeA	0.0054	5.4	Y	H	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluorotridecanoic Acid	PFTriA	0.011	11	Y	H	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	Perfluoroundecanoic Acid	PFUnA	0.012	12	Y	H	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2Q20-OUTLET 036-A	OUTLET 036	05/08/2020	PFOS	PFOS	0.002	2	N	U,H	UJ	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW3Q20-OUTLET 036	OUTLET 036	09/03/2020	Hfpo Dimer Acid	HFPO-DA	2.6	2600	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW3Q20-OUTLET 036	OUTLET 036	09/03/2020	PFOA	PFOA	0.15	150	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Hfpo Dimer Acid	HFPO-DA	13	13000	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluorobutanoic Acid	PFBA	0.038	38	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluorodecanoic Acid	PFDA	0.029	29	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluorododecanoic Acid	PFDoA	0.039	39	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluoroheptanoic Acid	PFHpA	0.024	24	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluorohexanoic Acid	PFHxA	0.048	48	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluorononanoic Acid	PFNA	0.022	22	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluoropentanoic Acid	PFPA	0.075	75	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.011	11	Y	I	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	Y	I	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	Perfluoroundecanoic Acid	PFUnA	0.045	45	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	PFOA	PFOA	0.19	190	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW2H20-OUTLET 036-A	OUTLET 036	11/11/2020	PFOS	PFOS	0.0017	1.7	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q21-OUTLET 036-A	OUTLET 036	02/28/2021	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q21-OUTLET 036-A	OUTLET 036	02/28/2021	PFOA	PFOA	0.17	170	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluorobutanoic Acid	PFBA	0.033	33	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluorodecanoic Acid	PFDA	0.016	16	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluorododecanoic Acid	PFDoA	0.017	17	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluoroheptanoic Acid	PFHpA	0.025	25	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluorohexanoic Acid	PFHxA	0.032	32	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluorononanoic Acid	PFNA	0.023	23	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluoropentanoic Acid	PFPA	0.22	220	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluorotetradecanoic Acid	PFTeA	0.011	11	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluorotridecanoic Acid	PFTriA	0.024	24	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	Perfluoroundecanoic Acid	PFUnA	0.023	23	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	PFOA	PFOA	0.17	170	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H21-OUTLET 036-A	OUTLET 036	08/18/2021	PFOS	PFOS	0.0037	3.7	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	DONA	DONA	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Hfpo Dimer Acid	HFPO-DA	2.8	2800	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U,cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluorobutanoic Acid	PFBA	0.051	51	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluorodecanoic Acid	PFDA	0.0093	9.3	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluorododecanoic Acid	PFDoA	0.013	13	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluoroheptanoic Acid	PFHpA	0.030	30	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluorohexanoic Acid	PFHxA	0.031	31	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluorononanoic Acid	PFNA	0.019	19	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluoropentanoic Acid	PFPA	0.24	240	Y	*-,cn	J	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluorotetradecanoic Acid	PFTeA	0.0072	7.2	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluorotridecanoic Acid	PFTriA	0.015	15	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	Perfluoroundecanoic Acid	PFUnA	0.015	15	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	PFOA	PFOA	0.12	120	Y	cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q21-OUTLET 036	OUTLET 036	12/06/2021	PFOS	PFOS	0.0018	1.8	N	U,cn		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q22-OUTLET 036	OUTLET 036	02/22/2022	Hfpo Dimer Acid	HFPO-DA	3.4	3400	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1Q22-OUTLET 036	OUTLET 036	02/22/2022	PFOA	PFOA	0.30	300	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Hfpo Dimer Acid	HFPO-DA	2.4	2400	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0029	2.9	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U	UJ	Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluorobutanoic Acid	PFBA	0.11	110	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluorodecanoic Acid	PFDA	0.044	44	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluorododecanoic Acid	PFDoA	0.075	75	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluoroheptanoic Acid	PFHpA	0.049	49	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluorononanoic Acid	PFNA	0.048	48	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluoropentanoic Acid	PFPA	0.20	200	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.031	31	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluorotridecanoic Acid	PFTriA	0.090	90	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	Perfluoroundecanoic Acid	PFUnA	0.074	74	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	PFOA	PFOA	0.20	200	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW1H22-OUTLET 036-A	OUTLET 036	07/18/2022	PFOS	PFOS	0.0020	2	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00777	7.77	N	U		LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.00777	7.77	N	U		LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	DONA	DONA	0.00777	7.77	N	U		LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Hfpo Dimer Acid	HFPO-DA	7.44	7440	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00194	1.94	N	U		LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00388	3.88	N	U		LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.00194	1.94	N	U		LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluorobutanoic Acid	PFBA	0.172	172	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluorodecanoic Acid	PFDA	0.0266	26.6	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluorododecanoic Acid	PFDoA	0.0573	57.3	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluoroheptanoic Acid	PFHpA	0.101	101	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.00194	1.94	N	U		LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluorohexanoic Acid	PFHxA	0.126	126	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluorononanoic Acid	PFNA	0.0778	77.8	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluoropentanoic Acid	PFPA	1.97	1970	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.0512	51.2	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluorotridecanoic Acid	PFTriA	0.111	111	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	Perfluoroundecanoic Acid	PFUnA	0.0429	42.9	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	PFOA	PFOA	0.164	164	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q22-OUTLET 036	OUTLET 036	11/11/2022	PFOS	PFOS	0.00194	1.94	N	U		LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW20232H-OUTLET 036-A	OUTLET 036	02/16/2023	Hfpo Dimer Acid	HFPO-DA	3.29	3290	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW20232H-OUTLET 036-A	OUTLET 036	02/16/2023	PFOA	PFOA	0.113	113	Y			LIQUID	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0171	17.1	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0171	17.1	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00857	8.57	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0429	42.9	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0429	42.9	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	DONA	DONA	0.00686	6.86	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	Hfpo Dimer Acid	HFPO-DA	6.87	6870	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00216	2.16	Y			Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00171	1.71	N	U		Liquid	FS	Other liquid	39.270834243	-81.676111664
SW4Q23-OUTLET 036-103023	OUTLET 036	10/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00171	1.71	N	U		Liquid	FS	Other liqu

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
2Q19GW-P06-MW02-A	P06-MW02	6/14/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2Q19GW-P06-MW02-A	P06-MW02	6/14/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	PFOA	PFOA	10	10000	Y	I		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorodecanoic Acid	PFDA	3.0	3000	Y	I		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Hfpo Dimer Acid	HFPO-DA	0.92	920	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluoroheptanoic Acid	PFHpA	0.36	360	Y	I	J	Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorononanoic Acid	PFNA	0.26	260	Y	I		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluoroundecanoic Acid	PFUnA	0.032	32	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorobutanoic Acid	PFBA	0.088	88	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluoropentanoic Acid	PFPA	0.59	590	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorohexanoic Acid	PFHxA	0.24	240	Y	I		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q19GW-P06-MW02-A	P06-MW02	9/19/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	PFOA	PFOA	8.2	8200	Y	I		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Hfpo Dimer Acid	HFPO-DA	0.73	730	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorodecanoic Acid	PFDA	2.9	2900	Y	I		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorobutanoic Acid	PFBA	0.16	160	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluoroundecanoic Acid	PFUnA	0.033	33	Y	I		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluoroheptanoic Acid	PFHpA	0.43	430	Y	I		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorononanoic Acid	PFNA	0.24	240	Y	I		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluoropentanoic Acid	PFPA	0.49	490	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorohexanoic Acid	PFHxA	0.20	200	Y	I		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
4Q19GW-P06-MW02-A	P06-MW02	12/12/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	PFOA	PFOA	8.1	8100	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Hfpo Dimer Acid	HFPO-DA	0.74	740	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorodecanoic Acid	PFDA	2.5	2500	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorobutanoic Acid	PFBA	0.20	200	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorononanoic Acid	PFNA	0.26	260	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluoroheptanoic Acid	PFHpA	0.51	510	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluoroundecanoic Acid	PFUnA	0.028	28	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluoropentanoic Acid	PFPA	0.68	680	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorohexanoic Acid	PFHxA	0.46	460	Y		J	Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1Q20GW-P06-MW02-A	P06-MW02	3/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	PFOA	PFOA	12	12000	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorobutanoic Acid	PFBA	0.31	310	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	PFOS	PFOS	0.031	31	Y	I	J	Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluoroundecanoic Acid	PFUnA	0.026	26	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluoroheptanoic Acid	PFHpA	0.79	790	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorononanoic Acid	PFNA	0.27	270	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorodecanoic Acid	PFDA	2.3	2300	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluoropentanoic Acid	PFPA	0.92	920	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorohexanoic Acid	PFHxA	0.61	610	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.034	34	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2Q20GW-P06-MW02-A	P06-MW02	5/28/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	PFOA	PFOA	11	11000	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorobutanoic Acid	PFBA	0.23	230	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	PFOS	PFOS	0.035	35	Y	I	J	Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluoroundecanoic Acid	PFUnA	0.032	32	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluoroheptanoic Acid	PFHpA	0.59	590	Y		J	Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorononanoic Acid	PFNA	0.30	300	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y	*	J	Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorodecanoic Acid	PFDA	2.3	2300	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluoropentanoic Acid	PFPA	0.55	550	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorohexanoic Acid	PFHxA	0.38	380	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.036	36	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.673172
3Q20GW-P06-MW02-A	P06-MW02	8/13/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	PFOA	PFOA	8.0	8000	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluoroundecanoic Acid	PFUnA	0.038	38	Y		J	Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluoroheptanoic Acid	PFHpA	0.34	340	Y		J	Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorononanoic Acid	PFNA	0.32	320	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorobutanoic Acid	PFBA	0.14	140	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	PFOS	PFOS	0.038	38	Y	I	J	Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorodecanoic Acid	PFDA	2.9	2900	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Hfpo Dimer Acid	HFPO-DA	0.61	610	Y	*,*1	J	Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluoropentanoic Acid	PFPA	0.40	400	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorohexanoic Acid	PFHxA	0.20	200	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.037	37	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.673172
4Q20GW-P06-MW02-A	P06-MW02	11/3/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluoroundecanoic Acid	PFUnA	0.034	34	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluoroheptanoic Acid	PFHpA	0.27	270	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorononanoic Acid	PFNA	0.28	280	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorobutanoic Acid	PFBA	0.071	71	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorodecanoic Acid	PFDA	2.7	2700	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluoropentanoic Acid	PFPA	0.48	480	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1H21GW-P06-MW02-A	P06-MW02	3/25/2021	PFOA	PFOA	9.9	9900	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorodecanoic Acid	PFDA	1.9	1900	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorononanoic Acid	PFNA	0.21	210	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluoroheptanoic Acid	PFHpA	0.24	240	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluoroundecanoic Acid	PFUnA	0.033	33	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorobutanoic Acid	PFBA	0.071	71	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluoropentanoic Acid	PFPA	0.33	330	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
2H21GW-P06-MW02-A	P06-MW02	9/9/2021	PFOA	PFOA	5.5	5500	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorononanoic Acid	PFNA	0.25	250	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluoroheptanoic Acid	PFHpA	0.68	680	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluoroundecanoic Acid	PFUnA	0.035	35	Y		J	Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	PFOS	PFOS	0.041	41	Y	I	J	Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorobutanoic Acid	PFBA	0.48	480	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorodecanoic Acid	PFDA	2.1	2100	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Hfpo Dimer Acid	HFPO-DA	1.6	1600	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluoropentanoic Acid	PFPA	0.56	560	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorohexanoic Acid	PFHxA	0.43	430	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.071	71	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.269981384	-81.673172
1H22GW-P06-MW02-A	P06-MW02	3/11/2022	PFOA	PFOA	19	19000	Y			Liquid	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluorodecanoic Acid	PFDA	2.5	2500	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluorononanoic Acid	PFNA	0.20	200	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluoroheptanoic Acid	PFHpA	0.46	460	Y		J	LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluoroundecanoic Acid	PFUnA	0.037	37	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluorobutanoic Acid	PFBA	0.33	330	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	PFOS	PFOS	0.043	43	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluoropentanoic Acid	PFPA	0.42	420	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluorohexanoic Acid	PFHxA	0.43	430	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H22GW-P06-MW02-A	P06-MW02	10/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.12	120	Y			LIQUID	FS	Groundwater	39.

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.57	570	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	1.4	1400	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	1.4	1400	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.71	710	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	3.6	3600	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.57	570	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	3.6	3600	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.57	570	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	DONA	DONA	0.57	570	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Hfpo Dimer Acid	HFPO-DA	1.7	1700	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.29	290	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorobutanoic Acid	PFBA	0.57	570	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorodecane Sulfonic Acid	PFDS	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorodecanoic Acid	PFDA	1.6	1600	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorododecanoic Acid	PFDoA	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluoroheptanoic Acid	PFHpA	0.25	250	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.28	280	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorohexanoic Acid	PFHxA	0.39	390	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorononanesulfonic Acid	PFNS	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorononanoic Acid	PFNA	0.22	220	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorooctane Sulfonamide	PFOSA	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluoropentanoic Acid	PFPA	0.29	290	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluorotridecanoic Acid	PFTriA	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	Perfluoroundecanoic Acid	PFUnA	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	PFECA B	PFECA B	0.29	290	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	PFECA-A	PFECA-A	0.29	290	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	PFECA-F	PFECA-F	0.29	290	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	PFOS	PFOS	0.14	140	N	U		LIQUID	FS	Groundwater	39.269981384	-81.673172
2H23GW-P06-MW02-A	P06-MW02	10/12/2023	PFOA	PFOA	19	19000	Y			LIQUID	FS	Groundwater	39.269981384	-81.673172
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	PFOA	PFOA	46.0	46000	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Hfpo Dimer Acid	HFPO-DA	0.89	890	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorodecanoic Acid	PFDA	0.7	700	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorobutanoic Acid	PFBA	0.29	290	Y		J	Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluoroheptanoic Acid	PFHpA	1.3	1300	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorononanoic Acid	PFNA	0.093	93	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluoropentanoic Acid	PFPA	0.66	660	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorohexanoic Acid	PFHxA	0.27	270	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.18	180	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26901245	-81.672447
1Q19GW-P08-MW01-A	P08-MW01	3/22/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	PFOA	PFOA	42.0	42000	Y		J	Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorobutanoic Acid	PFBA	0.64	640	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluoroheptanoic Acid	PFHpA	0.82	820	Y		J	Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorononanoic Acid	PFNA	0.085	85	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,I		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorodecanoic Acid	PFDA	0.9	900	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Hfpo Dimer Acid	HFPO-DA	0.86	860	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluoropentanoic Acid	PFPA	1.3	1300	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorohexanoic Acid	PFHxA	0.5	500	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.22	220	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorobutane Sulfonic Acid	PFBS	0.021	21	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q19GW-P08-MW01-A	P08-MW01	6/14/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	PFOA	PFOA	29	29000	Y	I		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorobutanoic Acid	PFBA	0.22	220	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorononanoic Acid	PFNA	0.069	69	Y	I		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluoroheptanoic Acid	PFHpA	1.6	1600	Y	E,I	J	Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Hfpo Dimer Acid	HFPO-DA	0.77	770	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorodecanoic Acid	PFDA	0.81	810	Y	I		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluoropentanoic Acid	PFPA	0.53	530	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorohexanoic Acid	PFHxA	0.32	320	Y	I		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.30	300	Y	I		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
3Q19GW-P08-MW01-A	P08-MW01	9/18/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	PFOA	PFOA	22	22000	Y	I	J	LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorononanoic Acid	PFNA	0.052	52	Y	I		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluoroheptanoic Acid	PFHpA	0.91	910	Y	I	J	LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorobutanoic Acid	PFBA	0.14	140	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorodecanoic Acid	PFDA	0.62	620	Y	I		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Hfpo Dimer Acid	HFPO-DA	0.22	220	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluoropentanoic Acid	PFPA	0.30	300	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorohexanoic Acid	PFHxA	0.25	250	Y	I		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.20	200	Y	I		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
4Q19GW-P08-MW01-A	P08-MW01	12/13/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluoroheptanoic Acid	PFHpA	0.82	820	Y		J	Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorononanoic Acid	PFNA	0.040	40	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorobutanoic Acid	PFBA	0.21	210	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorodecanoic Acid	PFDA	0.45	450	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Hfpo Dimer Acid	HFPO-DA	0.21	210	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	PFOA	PFOA	15	15000	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluoropentanoic Acid	PFPA	0.52	520	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorohexanoic Acid	PFHxA	0.34	340	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.16	160	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.027	27	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1Q20GW-P08-MW01-A	P08-MW01	3/13/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	PFOA	PFOA	11	11000	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Hfpo Dimer Acid	HFPO-DA	0.29	290	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorodecanoic Acid	PFDA	0.35	350	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluoroheptanoic Acid	PFHpA	0.66	660	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorobutanoic Acid	PFBA	0.21	210	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluoropentanoic Acid	PFPA	0.50	500	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorohexanoic Acid	PFHxA	0.32	320	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.16	160	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.037	37	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
2Q20GW-P08-MW01-A	P08-MW01	5/28/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	PFOA	PFOA	17	17000	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Hfpo Dimer Acid	HFPO-DA	0.40	400	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorodecanoic Acid	PFDA	0.56	560	Y		J	Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorobutanoic Acid	PFBA	0.32	320	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorononanoic Acid	PFNA	0.049	49	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluoroheptanoic Acid	PFHpA	1.1	1100	Y		J	Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluoropentanoic Acid	PFPA	0.53	530	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorohexanoic Acid	PFHxA	0.39	390	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.26	260	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorobutane Sulfonic Acid	PFBS	0.068	68	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26901245	-81.672447
4Q20GW-P08-MW01-A	P08-MW01	11/5/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26901245	-81.672447
1H21GW-P08-MW01-A	P08-MW01	3/24/2021	Hfpo Dimer Acid	HFPO-DA	0.56	560	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1H21GW-P08-MW01-A	P08-MW01	3/24/2021	Perfluorodecanoic Acid	PFDA	0.48	480	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1H21GW-P08-MW01-A	P08-MW01	3/24/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1H21GW-P08-MW01-A	P08-MW01	3/24/2021	Perfluorobutanoic Acid	PFBA	0.46	460	Y			Liquid	FS	Groundwater	39.26901245	-81.672447
1H21GW-P08-MW01-A	P08-MW01	3/24/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26901245	-81.672447
1H21GW-P08-MW01-A	P08-MW01	3/24/2021	Perfluorononanoic Acid	PFNA	0.042	42	Y			Liqu

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	Perfluorodecanoic Acid	PFDA	0.41	410	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	Hfpo Dimer Acid	HFPO-DA	0.67	670	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	Perfluoropentanoic Acid	PFPA	0.17	170	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	Perfluorohexanoic Acid	PFHxA	0.27	270	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.51	510	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.028	28	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,*+	UJ	LIQUID	FS	Groundwater	39.26901245	-81.672447
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	LIQUID	FS	Groundwater	39.26901245	-81.672447
2H22GW-P08-MW01-A	P08-MW01	10/18/2022	PFOA	PFOA	12	12000	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.043	43	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluoroheptanoic Acid	PFHpA	0.43	430	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorononanoic Acid	PFNA	0.028	28	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluoroundecanoic Acid	PFUnA	0.0020	2	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	PFOS	PFOS	0.0038	3.8	Y	I	J	LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorobutanoic Acid	PFBA	0.39	390	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	PFECA-F	PFECA-F	0.0057	5.7	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.51	510	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorodecanoic Acid	PFDA	0.23	230	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Hfpo Dimer Acid	HFPO-DA	1.8	1800	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluoropentanoic Acid	PFPA	0.32	320	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorohexanoic Acid	PFHxA	0.40	400	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.50	500	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.022	22	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorobutane Sulfonic Acid	PFBS	0.027	27	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0037	3.7	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0057	5.7	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.51	510	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
1H23GW-P08-MW01-A	P08-MW01	5/10/2023	PFOA	PFOA	48	48000	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.65	650	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.65	650	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.65	650	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	1.6	1600	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	1.6	1600	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.82	820	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	4.1	4100	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.65	650	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	4.1	4100	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.65	650	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	DONA	DONA	0.65	650	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Hfpo Dimer Acid	HFPO-DA	1.5	1500	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.33	330	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorobutanoic Acid	PFBA	0.65	650	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorodecane Sulfonic Acid	PFDS	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorodecanoic Acid	PFDA	0.35	350	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorododecanoic Acid	PFDoA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluoroheptanoic Acid	PFHpA	0.59	590	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.64	640	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorohexanoic Acid	PFHxA	0.38	380	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorononanesulfonic Acid	PFNS	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorononanoic Acid	PFNA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorooctane Sulfonamide	PFOSA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluoropentanoic Acid	PFPA	0.33	330	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluorotridecanoic Acid	PFTriA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	Perfluoroundecanoic Acid	PFUnA	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	PFECA B	PFECA B	0.33	330	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	PFECA-A	PFECA-A	0.33	330	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	PFECA-F	PFECA-F	0.33	330	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	PFOS	PFOS	0.16	160	N	U		LIQUID	FS	Groundwater	39.26901245	-81.672447
2H23GW-P08-MW01-A	P08-MW01	10/12/2023	PFOA	PFOA	21	21000	Y			LIQUID	FS	Groundwater	39.26901245	-81.672447
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Hfpo Dimer Acid	HFPO-DA	5.9	5900	Y		J	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.0043	4.3	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0087	8.7	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFOA	PFOA	53	53000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorodecanoic Acid	PFDA	0.16	160	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFOS	PFOS	0.03	30	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0087	8.7	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.0026	2.6	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.017	17	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.0052	5.2	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0026	2.6	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00035	0.35	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.026	26	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.026	26	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.0043	4.3	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0061	6.1	Y	J	J	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.079	79	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorohexanoic Acid	PFHxA	1.1	1100	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluoropentanoic Acid	PFPA	0.26	260	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorobutanoic Acid	PFBA	0.27	270	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0035	3.5	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.008	8	Y	J	J	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.87	870	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0087	8.7	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.0035	3.5	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.01	10	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorononanoic Acid	PFNA	0.14	140	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0026	2.6	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.0043	4.3	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.046	46	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00026	0.26	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	NaDONA	NaDONA	0.00026	0.26	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0087	8.7	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0087	8.7	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorotridecanoic Acid	PFTriA	0.0035	3.5	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY_WELL-0918	RANNEY WELL	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.0052	5.2	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-COMP-030619-A	RANNEY WELL	03/06/2019	Perfluorodecanoic Acid	PFDA	0.26	260	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-COMP-030619-A	RANNEY WELL	03/06/2019	PFOA	PFOA	45	45000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-COMP-030619-A	RANNEY WELL	03/06/2019	Hfpo Dimer Acid	HFPO-DA	14	14000	Y		J	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-COMP-030619-A	RANNEY WELL	03/06/2019	Perfluorooctadecanoic Acid	PFODA	0.0041	4.1	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-COMP-030619-A	RANNEY WELL	03/06/2019	APFO	APFO	46	46000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-COMP-030619-A	RANNEY WELL	03/06/2019	Perf

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Hfpo Dimer Acid	HFPO-DA	18.0	18000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluorooctadecanoic Acid	PFODA	0.0044	4.4	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	APFO	APFO	54.0	54000	Y		J	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluorotetradecanoic Acid	PFTeA	0.0028	2.8	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	PFOS	PFOS	0.037	37	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluorononanoic Acid	PFNA	0.22	220	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluoroundecanoic Acid	PFUnA	0.010	10	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluoroheptanoic Acid	PFHpA	1.4	1400	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluorobutane Sulfonic Acid	PFBS	0.012	12	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluoropentanoic Acid	PFPA	0.38	380	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	6:2 Fluorotelomer sulfonate	6:2 FTS	0.11	110	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.011	11	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluorohexanoic Acid	PFHxA	1.5	1500	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.067	67	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluorotridecanoic Acid	PFTriA	0.012	12	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-041119-A	RANNEY WELL	04/11/2019	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.0085	8.5	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-060419-A	RANNEY WELL	06/04/2019	Hfpo Dimer Acid	HFPO-DA	14.0	14000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-060419-A	RANNEY WELL	06/04/2019	PFOA	PFOA	36.0	36000	Y		J	Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	PFOS	PFOS	0.037	37	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorodecanoic Acid	PFDA	0.35	350	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	PFOA	PFOA	46.0	46000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Hfpo Dimer Acid	HFPO-DA	13.0	13000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorononanoic Acid	PFNA	0.25	250	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,I		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluoroheptanoic Acid	PFHpA	1.2	1200	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorobutanoic Acid	PFBA	0.42	420	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorohexanoic Acid	PFHxA	1.2	1200	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluoropentanoic Acid	PFPA	0.37	370	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,I		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.063	63	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q19GW-RANNEY WELL-A	RANNEY WELL	06/11/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-STORM-070819-A	RANNEY WELL	07/08/2019	PFOA	PFOA	44.0	44000	Y	E	J	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-STORM-070819-A	RANNEY WELL	07/08/2019	Hfpo Dimer Acid	HFPO-DA	12.0	12000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-080819-A	RANNEY WELL	08/08/2019	PFOA	PFOA	41.0	41000	Y	E	J	Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-080819-A	RANNEY WELL	08/08/2019	Hfpo Dimer Acid	HFPO-DA	12.0	12000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-091119-A	RANNEY WELL	09/11/2019	Hfpo Dimer Acid	HFPO-DA	13	13000	Y			LIQUID	FS	Groundwater	39.2716484	-81.6690598
RANNEY WELL-GRAB-091119-A	RANNEY WELL	09/11/2019	PFOA	PFOA	32	32000	Y			LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	PFOS	PFOS	0.039	39	Y	I		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorodecanoic Acid	PFDA	0.39	390	Y	I		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	PFOA	PFOA	41	41000	Y	I		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Hfpo Dimer Acid	HFPO-DA	13	13000	Y			LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorononanoic Acid	PFNA	0.26	260	Y	I		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluoroheptanoic Acid	PFHpA	0.81	810	Y	I		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorobutanoic Acid	PFBA	0.34	340	Y			LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorohexanoic Acid	PFHxA	1.0	1000	Y	I		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluoropentanoic Acid	PFPA	0.35	350	Y			LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.065	65	Y	I		LIQUID	FS	Groundwater	39.2716484	-81.6690598
3Q19GW-RANNEY WELL-A	RANNEY WELL	09/17/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	PFOS	PFOS	0.040	40	Y	I		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorodecanoic Acid	PFDA	0.35	350	Y	I		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	PFOA	PFOA	35	35000	Y	I		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Hfpo Dimer Acid	HFPO-DA	12	12000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorononanoic Acid	PFNA	0.23	230	Y	I		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluoroheptanoic Acid	PFHpA	0.71	710	Y	I		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorobutanoic Acid	PFBA	0.37	370	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluoropentanoic Acid	PFPA	0.33	330	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorohexanoic Acid	PFHxA	1.0	1000	Y	I		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.060	60	Y	I		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q19GW-RANNEY WELL-A	RANNEY WELL	12/10/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Hfpo Dimer Acid	HFPO-DA	14	14000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	PFOA	PFOA	32	32000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorodecanoic Acid	PFDA	0.35	350	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	PFOS	PFOS	0.039	39	Y		J	Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorobutanoic Acid	PFBA	0.34	340	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluoroheptanoic Acid	PFHpA	0.68	680	Y		J	Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorononanoic Acid	PFNA	0.23	230	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluoropentanoic Acid	PFPA	0.39	390	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorohexanoic Acid	PFHxA	1.1	1100	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.053	53	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1Q20GW-RANNEY WELL-A	RANNEY WELL	03/10/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Hfpo Dimer Acid	HFPO-DA	0.48	480	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	PFOA	PFOA	0.59	590	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
2Q20GW-RANNEY WELL-A	RANNEY WELL	05/27/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.056	56	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorohexanoic Acid	PFHxA	1.1	1100	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluoropentanoic Acid	PFPA	0.48	480	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorobutanoic Acid	PFBA	0.47	470	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluoroheptanoic Acid	PFHpA	0.93	930	Y		J	Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorononanoic Acid	PFNA	0.32	320	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Hfpo Dimer Acid	HFPO-DA	26	26000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	PFOA	PFOA	43	43000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorodecanoic Acid	PFDA	0.46	460	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	PFOS	PFOS	0.044	44	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
3Q20GW-RANNEY WELL-A	RANNEY WELL	08/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Hfpo Dimer Acid	HFPO-DA	0.83	830	Y	*,*1	J	Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	PFOA	PFOA	0.53	530	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorodecanoic Acid	PFDA	0.030	30	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.2716484	-81.6690598
4Q20GW-RANNEY WELL-A	RANNEY WELL	10/30/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Hfpo Dimer Acid	HFPO-DA	13	13000	Y	H	J	Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorobutanoic Acid	PFBA	0.42	420	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorodecanoic Acid	PFDA	0.45	450	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluoroheptanoic Acid	PFHpA	0.82	820	Y		J	Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.065	65	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorohexanoic Acid	PFHxA	1.1	1100	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorononanoic Acid	PFNA	0.33	330	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluoropentanoic Acid	PFPA	0.38	380	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	PFOA	PFOA	36	36000	Y			Liquid	FS	Groundwater	39.2716484	-81.6690598
1H21GW-RANNEY WELL-A	RANNEY WELL	03/23/2021	PFOS	PFOS	0.039

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	PFECA B	PFECA B	0.0028	2.8	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	05/08/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0075	7.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	DONA	DONA	0.0060	6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Hfpo Dimer Acid	HFPO-DA	0.0060	6	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorobutanoic Acid	PFBA	0.15	150	Y			Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluoroheptanoic Acid	PFHpA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorohexanoic Acid	PFHxA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluoropentanoic Acid	PFPA	0.0030	3	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	PFECA B	PFECA B	0.0030	3	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	PFECA-A	PFECA-A	0.0030	3	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	PFECA-F	PFECA-F	0.0030	3	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	PFOA	PFOA	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
2H23GW-RANNEY WELL-A	RANNEY WELL POST GAC	10/10/2023	PFOS	PFOS	0.0015	1.5	N	U		Liquid	FS	Groundwater	39.271505146579	-81.669369976480
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	PFOA	PFOA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A	RIVER INTAKE	03/21/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	PFOA	PFOA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	03/21/2019	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
RIVER INTAKE_041219-A	RIVER INTAKE	04/12/2019	PFOA	PFOA	0.055	55	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
RIVER INTAKE_041219-A	RIVER INTAKE	04/12/2019	Hfpo Dimer Acid	HFPO-DA	0.022	22	Y	F1	J	Liquid	FS	Surface Water	39.27168334	-81.66813898
RIVER INTAKE_D-041219-A	RIVER INTAKE	04/12/2019	Hfpo Dimer Acid	HFPO-DA	0.020	20	Y			Liquid	DUP	Surface Water	39.27168334	-81.66813898
RIVER INTAKE_D-041219-A	RIVER INTAKE	04/12/2019	PFOA	PFOA	0.056	56	Y			Liquid	DUP	Surface Water	39.27168334	-81.66813898
RIVER INTAKE-060419-A	RIVER INTAKE	06/04/2019	PFOA	PFOA	0.014	14	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
RIVER INTAKE-060419-A	RIVER INTAKE	06/04/2019	Hfpo Dimer Acid	HFPO-DA	0.011	11	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluorotridecanoic Acid	PFTriA	0.0009	0.9	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	9Cl-PF3ONS	9Cl-PF3ONS	0.0009	0.9	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluorobutane Sulfonic Acid	PFBS	0.001	1	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluoroheptanoic Acid	PFHpA	0.0011	1.1	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0027	2.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluorotetradecanoic Acid	PFTeA	0.0009	0.9	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	PFOS	PFOS	0.0019	1.9	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	DONA	DONA	0.0009	0.9	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q19-RIVER INTAKE-A	RIVER INTAKE	06/06/2019	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW619-River Intake	RIVER INTAKE	06/06/2019	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U,H	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
SW619-River Intake	RIVER INTAKE	06/06/2019	PFOA	PFOA	0.0059	5.9	Y	H		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	PFOA	PFOA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,I		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,I		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U,I		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,I	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A	RIVER INTAKE	06/11/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	06/11/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	06/11/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	06/11/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,I	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	06/11/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	06/11/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,I	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	06/11/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	06/11/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	06/11/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q19GW-RIVER INTAKE-A-D	RIVER INTAKE	06/11/2019	Perfluorobutane

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A	RIVER INTAKE	12/10/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	PFOA	PFOA	0.036	36	Y	I		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q19SW-RIVER INTAKE-A-D	RIVER INTAKE	12/10/2019	Hfpo Dimer Acid	HFPO-DA	0.015	15	Y			Liquid	DUP	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE	RIVER INTAKE	02/06/2020	PFOA	PFOA	0.0070	7	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE	RIVER INTAKE	02/06/2020	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	DONA	DONA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	PFOS	PFOS	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluorohexanoic Acid	PFHxA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW1Q20-RIVER INTAKE-A	RIVER INTAKE	03/05/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	<		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	PFOA	PFOA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,I		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,I		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	PFOA	PFOA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2020	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE	RIVER INTAKE	04/30/2020	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE	RIVER INTAKE	04/30/2020	PFOA	PFOA	0.0050	5	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	PFOA	PFOA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U,I	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A	RIVER INTAKE	05/27/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	PFOA	PFOA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2Q20GW-RIVER INTAKE-A-D	RIVER INTAKE	05/27/2020	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluorodecanoic Acid	PFDA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	DONA	DONA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	PFOS	PFOS	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluorohexanoic Acid	PFHxA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluorononanoic Acid	PFNA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluoroheptanoic Acid	PFHpA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0030	3	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluorotridecanoic Acid	PFTriA	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q20-RIVER INTAKE-A	RIVER INTAKE	05/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW0720-RIVER INTAKE	RIVER INTAKE	07/09/2020	PFOA	PFOA	0.0065	6.5	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW0720-RIVER INTAKE	RIVER INTAKE	07/09/2020	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	PFOA	PFOA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A	RIVER INTAKE	08/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
3Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	08/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
4Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	10/30/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	10/30/2020	PFOS	PFOS	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	10/30/2020	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	10/30/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	10/30/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	10/30/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	10/30/2020	PFOA	PFOA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
4Q20SW-RIVER INTAKE-A-D	RIVER INTAKE	10/30/2020	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U,*,*1		Liquid	DUP	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluorobutane Sulfonic Acid	PFBS	0.0043	4.3	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluoropentanoic Acid	PFPA	0.0018	1.8	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluorohexanoic Acid	PFHxA	0.0021	2.1	Y	I	J	Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	PFOS	PFOS	0.0020	2	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	PFOA	PFOA	0.0046	4.6	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q20-RIVER INTAKE-A	RIVER INTAKE	11/19/2020	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Hfpo Dimer Acid	HFPO-DA	0.0091	9.1	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	PFOA	PFOA	0.0061	6.1	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	PFOS	PFOS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0066	6.6	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluoropentanoic Acid	PFPA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluorohexanoic Acid	PFHxA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
River Intake-012121	RIVER INTAKE	01/21/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U,H	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	PFOA	PFOA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A	RIVER INTAKE	03/23/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	PFOA	PFOA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H21SW-RIVER INTAKE-A-D	RIVER INTAKE	03/23/2021	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U,H	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluoropentanoic Acid	PFPA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluorobutanoic Acid	PFBA	0.0044	4.4	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	PFOA	PFOA	0.0035	3.5	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q21-RIVER INTAKE-A	RIVER INTAKE	04/08/2021	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	PFOA	PFOA	0.0051	5.1	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Hfpo Dimer Acid	HFPO-DA	0.0032	3.2	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	PFOS	PFOS	0.0032	3.2	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluorobutanoic Acid	PFBA	0.0041	4.1	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluorohexanoic Acid	PFHxA	0.0029	2.9	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluoropentanoic Acid	PFPA	0.0027	2.7	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluorobutane Sulfonic Acid	PFBS	0.0036	3.6	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q21-RIVER INTAKE-A-071521	RIVER INTAKE	07/15/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Hfpo Dimer Acid	HFPO-DA	0.026	26	Y		J	Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	PFOA	PFOA	0.023	23	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A	RIVER INTAKE	09/07/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
2H21SW-RIVER INTAKE-A-D	RIVER INTAKE	09/07/2021	Perfluorodecane Sulfonic Acid	PFDS

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1H22SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2022	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A	RIVER INTAKE	03/10/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	PFOS	PFOS	0.030	30	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	PFOA	PFOA	0.020	20	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
1H22SW-RIVER INTAKE-A-D	RIVER INTAKE	03/10/2022	Hfpo Dimer Acid	HFPO-DA	0.010	10	N	U		Liquid	DUP	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Hfpo Dimer Acid	HFPO-DA	0.0071	7.1	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	PFOA	PFOA	0.0039	3.9	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	PFOS	PFOS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluorohexanoic Acid	PFHxA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluoropentanoic Acid	PFPA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q22-RIVER INTAKE-A-041422	RIVER INTAKE	04/14/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0024	2.4	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluoropentanoic Acid	PFPA	0.0019	1.9	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluorohexanoic Acid	PFHxA	0.0020	2	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluorobutanoic Acid	PFBA	0.0041	4.1	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	PFOS	PFOS	0.0021	2.1	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Hfpo Dimer Acid	HFPO-DA	0.017	17	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	PFOA	PFOA	0.0060	6	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW3Q22-RIVER INTAKE-A-070722	RIVER INTAKE	07/07/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0028	2.8	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluoropentanoic Acid	PFPA	0.0019	1.9	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	PFOS	PFOS	0.0019	1.9	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Hfpo Dimer Acid	HFPO-DA	0.011	11	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	PFOA	PFOA	0.0041	4.1	Y			Liquid	FS	Surface Water	39.27168334	-81.66813898
SW4Q22-RIVER INTAKE-A-100622	RIVER INTAKE	10/06/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Hfpo Dimer Acid	HFPO-DA	0.035	35	Y			LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	PFOA	PFOA	0.020	20	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,*+	UJ	LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A	RIVER INTAKE	10/17/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorohexanoic Acid	PFHxA	0.020	20	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluoroheptanoic Acid	PFHpA	0.030	30	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorobutanoic Acid	PFBA	0.020	20	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,*+	UJ	LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	PFOS	PFOS	0.030	30	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	PFOA	PFOA	0.020	20	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H22SW-RIVER INTAKE-A-D	RIVER INTAKE	10/17/2022	Hfpo Dimer Acid	HFPO-DA	0.038	38	Y			LIQUID	DUP	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	PFOA	PFOA	0.00384	3.84	Y			LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Hfpo Dimer Acid	HFPO-DA	0.00702	7.02	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluorodecanoic Acid	PFDA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	DONA	DONA	0.00702	7.02	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	PFOS	PFOS	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluorobutanoic Acid	PFBA	0.00702	7.02	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.200	200	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluorohexanoic Acid	PFHxA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00351	3.51	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluoropentanoic Acid	PFPA	0.00351	3.51	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluoroundecanoic Acid	PFUnA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluorononanoic Acid	PFNA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluoroheptanoic Acid	PFHpA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00702	7.02	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00702	7.02	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluorotridecanoic Acid	PFTriA	0.200	200	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW1Q23-RIVER INTAKE-A-011223	RIVER INTAKE	01/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
SW2Q23-RIVER INTAKE-A-041323	RIVER INTAKE	04/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00176	1.76	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q23-RIVER INTAKE-A-041323	RIVER INTAKE	04/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00176	1.76	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q23-RIVER INTAKE-A-041323	RIVER INTAKE	04/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00176	1.76	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q23-RIVER INTAKE-A-041323	RIVER INTAKE	04/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00702	7.02	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q23-RIVER INTAKE-A-041323	RIVER INTAKE	04/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00878	8.78	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q23-RIVER INTAKE-A-041323	RIVER INTAKE	04/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00176	1.76	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q23-RIVER INTAKE-A-041323	RIVER INTAKE	04/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00702	7.02	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q23-RIVER INTAKE-A-041323	RIVER INTAKE	04/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00702	7.02	N	U		Liquid	FS	Surface Water	39.27168334	-81.66813898
SW2Q23-RIVER INTAKE-A-041323	RIVER INTAKE	04/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		Liquid	FS

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1H23SW-RIVER INTAKE-A	RIVER INTAKE	05/08/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A	RIVER INTAKE	05/08/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A	RIVER INTAKE	05/08/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A	RIVER INTAKE	05/08/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A	RIVER INTAKE	05/08/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0057	5.7	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A	RIVER INTAKE	05/08/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A	RIVER INTAKE	05/08/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A	RIVER INTAKE	05/08/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluoroheptanoic Acid	PFHpA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	PFOA	PFOA	0.010	10	Y			LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1H23SW-RIVER INTAKE-A-D	RIVER INTAKE	05/08/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorodecanoic Acid	PFDA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	PFOA	PFOA	0.00529	5.29	Y			Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Hfpo Dimer Acid	HFPO-DA	0.00678	6.78	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00339	3.39	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	DONA	DONA	0.00678	6.78	N	U,cn		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	PFECA-A	PFECA-A	0.00339	3.39	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00678	6.78	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	PFECA-F	PFECA-F	0.00339	3.39	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	PFOS	PFOS	0.00252	2.52	Y			Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorobutanoic Acid	PFBA	0.00678	6.78	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorohexanoic Acid	PFHxA	0.00275	2.75	Y			Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00678	6.78	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorododecanoic Acid	PFDoA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00339	3.39	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluoropentanoic Acid	PFPA	0.00339	3.39	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0170	17	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	PFECA B	PFECA B	0.00339	3.39	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorononanoic Acid	PFNA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluoroheptanoic Acid	PFHpA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00233	2.33	Y			Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorononanesulfonic Acid	PFNS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0424	42.4	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0424	42.4	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00678	6.78	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00678	6.78	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00678	6.78	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorooctane Sulfonamide	PFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00848	8.48	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW3Q23-RIVER INTAKE-A-071323	RIVER INTAKE	07/13/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00170	1.7	N	U		Liquid	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorodecanoic Acid	PFDA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorodecane Sulfonic Acid	PFDS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	PFOA	PFOA	0.00431	4.31	Y			LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Hfpo Dimer Acid	HFPO-DA	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	DONA	DONA	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0443	44.3	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	PFECA-F	PFECA-F	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	PFECA-A	PFECA-A	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	PFOS	PFOS	0.00188	1.88	Y			LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0177	17.7	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorotetradecanoic Acid	PFTeA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorobutanoic Acid	PFBA	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorohexanoic Acid	PFHxA	0.00306	3.06	Y			LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorododecanoic Acid	PFDoA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluoropentanoic Acid	PFPA	0.00368	3.68	Y			LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluoroundecanoic Acid	PFUnA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0177	17.7	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	PFECA B	PFECA B	0.00354	3.54	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorononanoic Acid	PFNA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluoroheptanoic Acid	PFHpA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00378	3.78	Y			LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorotridecanoic Acid	PFTriA	0.00177	1.77	N	U,cn		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00708	7.08	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorooctane Sulfonamide	PFOSA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.00885	8.85	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	Perfluorononanesulfonic Acid	PFNS	0.00177	1.77	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
SW4Q23-RIVER INTAKE-A-100523	RIVER INTAKE	10/05/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0443	44.3	N	U		LIQUID	FS	Other liquid	39.27168334	-81.66813898
2H23SW-RIVER INTAKE-A	RIVER INTAKE	10/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0086	8.6	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H23SW-RIVER INTAKE-A	RIVER INTAKE	10/10/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0086	8.6	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H23SW-RIVER INTAKE-A	RIVER INTAKE	10/10/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0086	8.6	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H23SW-RIVER INTAKE-A	RIVER INTAKE	10/10/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.021	21	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H23SW-RIVER INTAKE-A	RIVER INTAKE	10/10/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.021	21	N	U		LIQUID	FS	Surface Water	39.27168334	-81.66813898
2H23SW-RIVER INTAKE-A	RIVER INTAKE	10/10/2023	3:3 Fluorotelomer Carboxylic Acid

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
2H23SW-RIVER INTAKE-A-D	RIVER INTAKE	10/10/2023	Perfluorodecanoic Acid	PFDA	0.0022	2.2	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H23SW-RIVER INTAKE-A-D	RIVER INTAKE	10/10/2023	PFOA	PFOA	0.0040	4	Y			LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H23SW-RIVER INTAKE-A-D	RIVER INTAKE	10/10/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0044	4.4	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
2H23SW-RIVER INTAKE-A-D	RIVER INTAKE	10/10/2023	Hfpo Dimer Acid	HFPO-DA	0.0087	8.7	N	U		LIQUID	DUP	Surface Water	39.27168334	-81.66813898
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	PFOA	PFOA	3.9	3900	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Hfpo Dimer Acid	HFPO-DA	0.029	29	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorobutanoic Acid	PFBA	0.083	83	Y		J	Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluoroheptanoic Acid	PFHpA	0.2	200	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluoropentanoic Acid	PFPA	0.049	49	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorohexanoic Acid	PFHxA	0.1	100	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q19GW-T13-MW01-A	T13-MW01	3/25/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	PFOA	PFOA	5.0	5000	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U,I	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorobutanoic Acid	PFBA	0.11	110	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U,I		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluoroheptanoic Acid	PFHpA	0.3	300	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U,I		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U,I		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Hfpo Dimer Acid	HFPO-DA	0.031	31	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluoropentanoic Acid	PFPA	0.057	57	Y		J	Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorohexanoic Acid	PFHxA	0.14	140	Y		J	Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q19GW-T13-MW01-A	T13-MW01	6/13/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	PFOA	PFOA	4.7	4700	Y	I		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorobutanoic Acid	PFBA	0.10	100	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluoroheptanoic Acid	PFHpA	0.24	240	Y	I		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Hfpo Dimer Acid	HFPO-DA	0.031	31	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluoropentanoic Acid	PFPA	0.057	57	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y	I		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
3Q19GW-T13-MW01-A	T13-MW01	9/17/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	PFOA	PFOA	4.7	4700	Y	I		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluoroheptanoic Acid	PFHpA	0.22	220	Y	I		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorobutanoic Acid	PFBA	0.097	97	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Hfpo Dimer Acid	HFPO-DA	0.030	30	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluoropentanoic Acid	PFPA	0.049	49	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y	I		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q19GW-T13-MW01-A	T13-MW01	12/10/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluoroheptanoic Acid	PFHpA	0.21	210	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorobutanoic Acid	PFBA	0.10	100	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	PFOS	PFOS	0.030	30	N	U,I		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Hfpo Dimer Acid	HFPO-DA	0.033	33	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	PFOA	PFOA	4.2	4200	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluoropentanoic Acid	PFPA	0.074	74	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorohexanoic Acid	PFHxA	0.15	150	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1Q20GW-T13-MW01-A	T13-MW01	3/11/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	PFOA	PFOA	3.1	3100	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Hfpo Dimer Acid	HFPO-DA	0.038	38	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorobutanoic Acid	PFBA	0.042	42	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluoropentanoic Acid	PFPA	0.032	32	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorohexanoic Acid	PFHxA	0.082	82	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
2Q20GW-T13-MW01-A	T13-MW01	5/29/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	PFOA	PFOA	3.7	3700	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorobutanoic Acid	PFBA	0.085	85	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluoroheptanoic Acid	PFHpA	0.17	170	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Hfpo Dimer Acid	HFPO-DA	0.045	45	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluoropentanoic Acid	PFPA	0.050	50	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
3Q20GW-T13-MW01-A	T13-MW01	8/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	PFOA	PFOA	3.7	3700	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Hfpo Dimer Acid	HFPO-DA	0.057	57	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorobutanoic Acid	PFBA	0.079	79	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluoroheptanoic Acid	PFHpA	0.20	200	Y		J	Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluoropentanoic Acid	PFPA	0.053	53	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorohexanoic Acid	PFHxA	0.11	110	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
4Q20GW-T13-MW01-A	T13-MW01	11/4/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Hfpo Dimer Acid	HFPO-DA	0.062	62	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorobutanoic Acid	PFBA	0.078	78	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluoroheptanoic Acid	PFHpA	0.20	200	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluoropentanoic Acid	PFPA	0.045	45	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorohexanoic Acid	PFHxA	0.11	110	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
1H21GW-T13-MW01-A	T13-MW01	3/24/2021	PFOA	PFOA	3.8	3800	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2H21GW-T13-MW01-A	T13-MW01	9/10/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2H21GW-T13-MW01-A	T13-MW01	9/10/2021	Perfluorobutanoic Acid	PFBA	0.11	110	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2H21GW-T13-MW01-A	T13-MW01	9/10/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2H21GW-T13-MW01-A	T13-MW01	9/10/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2H21GW-T13-MW01-A	T13-MW01	9/10/2021	Perfluoroheptanoic Acid	PFHpA	0.25	250	Y			Liquid	FS	Groundwater	39.266609192	-81.66939545
2H21GW-T13-MW01-A	T13-MW01	9/10/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2H21GW-T13-MW01-A	T13-MW01	9/10/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.266609192	-81.66939545
2H21GW-T13-MW01-A	T13-MW01	9/10/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	PFOS	PFOS	0.0016	1.6	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorobutanoic Acid	PFBA	0.14	140	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.12	120	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorodecanoic Acid	PFDA	0.0029	2.9	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Hfpo Dimer Acid	HFPO-DA	0.076	76	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluoropentanoic Acid	PFPA	0.066	66	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorohexanoic Acid	PFHxA	0.14	140	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0098	9.8	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0077	7.7	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0036	3.6	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	DONA	DONA	0.0062	6.2	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.12	120	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0062	6.2	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
1H23GW-T13-MW01-A	T13-MW01	5/9/2023	PFOA	PFOA	12	12000	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U	UJ	LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0075	7.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.037	37	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.024	24	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.037	37	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	DONA	DONA	0.0060	6	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Hfpo Dimer Acid	HFPO-DA	0.078	78	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0041	4.1	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorobutanoic Acid	PFBA	0.12	120	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorodecanoic Acid	PFDA	0.0031	3.1	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluoroheptanoic Acid	PFHpA	0.15	150	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0091	9.1	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorononanoic Acid	PFNA	0.0048	4.8	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0022	2.2	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluoropentanoic Acid	PFPA	0.057	57	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	PFOS	PFOS	0.0016	1.6	Y	I	J	LIQUID	FS	Groundwater	39.266609192	-81.66939545
2H23GW-T13-MW01-A	T13-MW01	10/11/2023	PFOA	PFOA	4.7	4700	Y			LIQUID	FS	Groundwater	39.266609192	-81.66939545
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00087	0.87	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorododecanoic Acid	PFDoA	0.00044	0.44	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0024	2.4	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.022	22	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorononanoic Acid	PFNA	0.0025	2.5	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.001	1	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluoroundecanoic Acid	PFUnA	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorobutanoic Acid	PFBA	0.058	58	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFO5DA	PFO5DA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFO4DA	PFO4DA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFO3OA	PFO3OA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.00087	0.87	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0026	2.6	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFOS	PFOS	0.022	22	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0017	1.7	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.00052	0.52	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorodecanoic Acid	PFDA	0.00079	0.79	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Hfpo Dimer Acid	HFPO-DA	0.15	150	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PMPA	PMPA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.00087	0.87	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorooctadecanoic Acid	PFODA	0.00044	0.44	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFOA	PFOA	4.2	4200	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorononanesulfonic Acid	PFNS	0.00052	0.52	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.00087	0.87	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFECA-G	PFECA-G	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00087	0.87	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	NaDONA	NaDONA	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0026	2.6	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PFMOAA	PFMOAA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.00026	0.26	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorotridecanoic Acid	PFTriA	0.00035	0.35	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.00044	0.44	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PEPA	PEPA	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluoropentanoic Acid	PFPA	0.064	64	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	PS Acid	PS Acid	0.20	200	N	U		Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.18	180	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.02	20	Y			Liquid	FS	Groundwater	39.26379	-81.675
WEST_FIELD_WELL-HEADER-0918	WEST FIELD WELL HEADER 1	09/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0023	2.3	Y			Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y			Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluorobutanoic Acid	PFBA	0.049	49	Y		J	Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	PFOA	PFOA	4.0	4000	Y			Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Hfpo Dimer Acid	HFPO-DA	0.17	170	Y			Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluoropentanoic Acid	PFPA	0.048	48	Y			Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluorohexanoic Acid	PFHxA	0.1	100	Y			Liquid	FS	Groundwater	39.26379	-81.675
1Q19GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/21/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.2	200	Y			Liquid	FS	Groundwater	39.26379	-81.675

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
1Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/10/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.18	180	Y			Liquid	FS	Groundwater	39.26379	-81.675
1Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/10/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/10/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/10/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorobutanoic Acid	PFBA	0.053	53	Y			Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	PFOS	PFOS	0.040	40	Y			Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluoroheptanoic Acid	PFHpA	0.20	200	Y			Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U,I		Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	PFOA	PFOA	4.4	4400	Y			Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Hfpo Dimer Acid	HFPO-DA	0.20	200	Y			Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluoropentanoic Acid	PFPA	0.10	100	Y			Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorohexanoic Acid	PFHxA	0.16	160	Y			Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.27	270	Y			Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorobutane Sulfonic Acid	PFBS	0.025	25	Y			Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/27/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Hfpo Dimer Acid	HFPO-DA	0.22	220	Y			Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	PFOA	PFOA	3.5	3500	Y			Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y			Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	PFOS	PFOS	0.045	45	Y			Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorobutanoic Acid	PFBA	0.047	47	Y			Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluoropentanoic Acid	PFPA	0.033	33	Y			Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorohexanoic Acid	PFHxA	0.072	72	Y			Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.12	120	Y			Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
3Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	08/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorobutanoic Acid	PFBA	0.066	66	Y			Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluoroheptanoic Acid	PFHpA	0.21	210	Y		J	Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	PFOS	PFOS	0.076	76	Y			Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	PFOA	PFOA	5.1	5100	Y			Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Hfpo Dimer Acid	HFPO-DA	0.25	250	Y	*,**1	J	Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluoropentanoic Acid	PFPA	0.083	83	Y			Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.21	210	Y			Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorobutane Sulfonic Acid	PFBS	0.023	23	Y			Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.26379	-81.675
4Q20GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	10/30/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y			Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	PFOS	PFOS	0.050	50	Y			Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorobutanoic Acid	PFBA	0.049	49	Y			Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	PFOA	PFOA	4.1	4100	Y			Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Hfpo Dimer Acid	HFPO-DA	0.26	260	Y	H	J	Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluoropentanoic Acid	PFPA	0.042	42	Y			Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorohexanoic Acid	PFHxA	0.088	88	Y			Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.15	150	Y			Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	DUP	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Hfpo Dimer Acid	HFPO-DA	0.25	250	Y	H	J	Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	PFOA	PFOA	4.2	4200	Y			Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorobutanoic Acid	PFBA	0.048	48	Y			Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	PFOS	PFOS	0.044	44	Y			Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluoroheptanoic Acid	PFHpA	0.15	150	Y			Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluoropentanoic Acid	PFPA	0.043	43	Y			Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorohexanoic Acid	PFHxA	0.089	89	Y			Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.15	150	Y			Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
1H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	03/23/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	PFOA	PFOA	4.8	4800	Y			Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y			Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluoroheptanoic Acid	PFHpA	0.20	200	Y			Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorobutanoic Acid	PFBA	0.065	65	Y			Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluoropentanoic Acid	PFPA	0.058	58	Y			Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.17	170	Y			Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	Y			Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorobutanoic Acid	PFBA	0.064	64	Y			Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	PFOS	PFOS	0.060	60	Y			Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluoroheptanoic Acid	PFHpA	0.19	190	Y			Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	PFOA	PFOA	4.9	4900	Y			Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluoropentanoic Acid	PFPA	0.053	53	Y			Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.18	180	Y			Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
2H21GW-W FIELD WELL HEADER1-D	WEST FIELD WELL HEADER 1	09/07/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	DUP	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0076	7.6	Y			LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	Hfpo Dimer Acid	HFPO-DA	0.30	300	Y			LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	Perfluorobutane Sulfonic Acid	PFBS	0.011	11	Y			LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	Perfluorobutanoic Acid	PFBA	0.039	39	Y			LIQUID	FS	Groundwater	39.26379	-81.675
1H23GW-W FIELD WELL HEADER1	WEST FIELD WELL HEADER 1	05/08/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.26379	-81.675
1H23G

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	PFOA	PFOA	3.9	3900	Y	I		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Hfpo Dimer Acid	HFPO-DA	0.044	44	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluoroheptanoic Acid	PFHpA	0.20	200	Y	I		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorobutanoic Acid	PFBA	0.071	71	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	PFOS	PFOS	0.044	44	Y	I		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluoropentanoic Acid	PFPA	0.048	48	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorohexanoic Acid	PFHxA	0.12	120	Y	I		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
4Q19GW-Z07-MW01-A	Z07-MW01	12/13/2019	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	PFOA	PFOA	4.7	4700	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Hfpo Dimer Acid	HFPO-DA	0.094	94	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluoroheptanoic Acid	PFHpA	0.26	260	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorobutanoic Acid	PFBA	0.084	84	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	PFOS	PFOS	0.049	49	Y		J	Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluoropentanoic Acid	PFPA	0.085	85	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorohexanoic Acid	PFHxA	0.19	190	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.043	43	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1Q20GW-Z07-MW01-A	Z07-MW01	3/13/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	PFOA	PFOA	3.7	3700	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluoroheptanoic Acid	PFHpA	0.19	190	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorobutanoic Acid	PFBA	0.10	100	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	PFOS	PFOS	0.051	51	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Hfpo Dimer Acid	HFPO-DA	0.096	96	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluoropentanoic Acid	PFPA	0.10	100	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorohexanoic Acid	PFHxA	0.21	210	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.035	35	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2Q20GW-Z07-MW01-A	Z07-MW01	5/28/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	PFOA	PFOA	2.8	2800	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Hfpo Dimer Acid	HFPO-DA	0.059	59	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorobutanoic Acid	PFBA	0.055	55	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	PFOS	PFOS	0.052	52	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluoropentanoic Acid	PFPA	0.046	46	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
3Q20GW-Z07-MW01-A	Z07-MW01	8/12/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	PFOA	PFOA	3.1	3100	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Hfpo Dimer Acid	HFPO-DA	0.080	80	Y	H	J	Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y		J	Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorobutanoic Acid	PFBA	0.053	53	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	PFOS	PFOS	0.10	100	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluoropentanoic Acid	PFPA	0.047	47	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorohexanoic Acid	PFHxA	0.094	94	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
4Q20GW-Z07-MW01-A	Z07-MW01	11/5/2020	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Hfpo Dimer Acid	HFPO-DA	0.062	62	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorobutanoic Acid	PFBA	0.022	22	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluoroheptanoic Acid	PFHpA	0.11	110	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorohexanoic Acid	PFHxA	0.072	72	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
1H21GW-Z07-MW01-A	Z07-MW01	3/24/2021	PFOA	PFOA	0.89	890	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluoroheptanoic Acid	PFHpA	0.056	56	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorobutanoic Acid	PFBA	0.035	35	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Hfpo Dimer Acid	HFPO-DA	0.094	94	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluoropentanoic Acid	PFPA	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorohexanoic Acid	PFHxA	0.072	72	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
2H21GW-Z07-MW01-A	Z07-MW01	9/8/2021	PFOA	PFOA	0.90	900	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	PFOS	PFOS	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorobutanoic Acid	PFBA	0.056	56	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Hfpo Dimer Acid	HFPO-DA	0.17	170	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluoropentanoic Acid	PFPA	0.045	45	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorohexanoic Acid	PFHxA	0.10	100	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	Liquid	FS	Groundwater	39.270748138	-81.66622925
1H22GW-Z07-MW01-A	Z07-MW01	3/11/2022	PFOA	PFOA	1.6	1600	Y			Liquid	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Hfpo Dimer Acid	HFPO-DA	0.37	370	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorodecanoic Acid	PFDA	0.020	20	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorodecane Sulfonic Acid	PFDS	0.020	20	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorononanoic Acid	PFNA	0.040	40	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluoroundecanoic Acid	PFUnA	0.020	20	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorobutanoic Acid	PFBA	0.073	73	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluoroheptanoic Acid	PFHpA	0.18	180	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	PFOS	PFOS	0.030	30	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorododecanoic Acid	PFDoA	0.030	30	N	U	UJ	LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluoropentanoic Acid	PFPA	0.060	60	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorohexanoic Acid	PFHxA	0.14	140	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.030	30	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorobutane Sulfonic Acid	PFBS	0.020	20	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorotetradecanoic Acid	PFTeA	0.030	30	N	U,*+	UJ	LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	Perfluorotridecanoic Acid	PFTriA	0.040	40	N	U	UJ	LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H22GW-Z07-MW01-A	Z07-MW01	10/18/2022	PFOA	PFOA	2.7	2700	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
1H23GW-Z07-MW01-A	Z07-MW01	5/10/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
1H23GW-Z07-MW01-A	Z07-MW01	5/10/2023	Hfpo Dimer Acid	HFPO-DA	0.41	410	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
1H23GW-Z07-MW01-A	Z07-MW01	5/10/2023	Perfluorodecanoic Acid	PFDA	0.0021	2.1	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
1H23GW-Z07-MW01-A	Z07-MW01	5/10/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
1H23GW-Z07-MW01-A	Z07-MW01	5/10/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
1H23GW-Z07-MW01-A	Z07-MW01	5/10/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
1H23GW-Z07-MW01-A	Z07-MW01	5/10/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
1H23GW-Z07-MW01-A	Z07-MW01	5/10/2023	Perfluorobutanoic Acid	PFBA	0.079	79	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
1H23GW-Z07-MW01-A	Z07-MW01	5/10/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Gro

Appendix J
On-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorodecanoic Acid	PFDA	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorododecanoic Acid	PFDoA	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorononanesulfonic Acid	PFNS	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorononanoic Acid	PFNA	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorooctane Sulfonamide	PFOSA	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluoropentanoic Acid	PFPA	0.15	150	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluorotridecanoic Acid	PFTriA	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	Perfluoroundecanoic Acid	PFUnA	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	PFECA B	PFECA B	0.15	150	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	PFECA-A	PFECA-A	0.15	150	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	PFECA-F	PFECA-F	0.15	150	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	PFOS	PFOS	0.075	75	N	U		LIQUID	FS	Groundwater	39.270748138	-81.66622925
2H23GW-Z07-MW01-A	Z07-MW01	10/12/2023	PFOA	PFOA	4.9	4900	Y			LIQUID	FS	Groundwater	39.270748138	-81.66622925

Appendix K

Off-Site Water Data Included in Summary Tables

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	PFOA	PFOA	0.21	210	Y			Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluorobutane Sulfonic Acid	PFBS	0.013	13	Y			Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluoroheptanoic Acid	PFHpA	0.0065	6.5	Y			Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluorohexanoic Acid	PFHxA	0.0073	7.3	Y			Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
0622-101JohnsonCreekRd	101JohnsonCreekRd	1019	6/28/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.29071	-81.4979
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Hfpo Dimer Acid	HFPO-DA	0.0056	5.6	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	PFECA B	PFECA B	0.0028	2.8	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluoroheptanoic Acid	PFHpA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	PFOS	PFOS	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	PFOA	PFOA	0.0020	2	Y	H	J	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorobutanoic Acid	PFBA	0.0056	5.6	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1020WatertownRd-PT	1020WatertownRd-PT	867	8/11/2023	DONA	DONA	0.0056	5.6	N	U,H	UJ	LIQUID	FS	Drinking Water	39.473822	-81.61974
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0077	7.7	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorohexanoic Acid	PFHxA	0.0065	6.5	Y			LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluoroheptanoic Acid	PFHpA	0.031	31	Y			LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorobutanoic Acid	PFBA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	DONA	DONA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Hfpo Dimer Acid	HFPO-DA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1026LowGapRiverRd-PT	1026LowGapRiverRd-PT	650	8/24/2023	PFOA	PFOA	0.44	440	Y			LIQUID	FS	Drinking Water	39.201702118	-81.72756195
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0081	8.1	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorohexanoic Acid	PFHxA	0.0076	7.6	Y			LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluoropentanoic Acid	PFPA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	PFECA B	PFECA B	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluoroheptanoic Acid	PFHpA	0.014	14	Y			LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorobutanoic Acid	PFBA	0.011	11	Y			LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverRdPT	1027LowGapRiverRd-PT	653	8/24/2023	DONA	DONA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.1996727	-81.72894287
GC3Q23-1027LowGapRiverR

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	PFOS	PFOS	0.0020	2	Y			LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	PFOA	PFOA	0.17	170	Y			LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorohexanoic Acid	PFHxA	0.0037	3.7	Y			LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	Y			LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-10635StRt339-PT	10635StRt339-PT	994	8/18/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.428	-81.6588
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Hfpo Dimer Acid	HFPO-DA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluoroheptanoic Acid	PFHpA	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	PFOA	PFOA	0.11	110	Y			LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorobutanoic Acid	PFBA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluoropentanoic Acid	PFPA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorohexanoic Acid	PFHxA	0.0027	2.7	Y			LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0072	7.2	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
GC3Q23-1100PlumRunRd-PT	1100PlumRunRd-PT	887	8/11/2023	DONA	DONA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.489824	-81.61893
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluoroheptanoic Acid	PFHpA	0.0053	5.3	Y			Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Hfpo Dimer Acid	HFPO-DA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluorohexanoic Acid	PFHxA	0.0045	4.5	Y			Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0059	5.9	Y			Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	PFOS	PFOS	0.0027	2.7	Y			Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	PFOA	PFOA	0.15	150	Y			Liquid	FS	Drinking Water	39.46006	-81.7412
0522-110RussellRd	110RussellRd	1004	5/2/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0041	4.1	Y			LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	PFOS	PFOS	0.0030	3	Y			LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	PFOA	PFOA	0.085	85	Y			LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorobutanoic Acid	PFBA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	Y			LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorohexanoic Acid	PFHxA	0.0044	4.4	Y			LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0036	3.6	Y			LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0075	7.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0068	6.8	Y			LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.46006	-81.7412
GC3Q23-110RussellRd-PT	110RussellRd-PT	1004	8/18/2023	Perfluorooctane Sulfon

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	Perfluorobutanoic Acid	PFBA	0.0080	8	Y			LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0053	5.3	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	Y	I	J	LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	Perfluorohexanoic Acid	PFHxA	0.012	12	Y			LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0067	6.7	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.033	33	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.033	33	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-1161SchoolhouseRd-PT	1161SchoolhouseRd-PT	701	7/28/2023	DONA	DONA	0.0053	5.3	N	U		LIQUID	FS	Drinking Water	39.299162	-81.7230033
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluoroheptanoic Acid	PFHpA	0.0021	2.1	Y			LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	PFOA	PFOA	0.063	63	Y			LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluorobutanoic Acid	PFBA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluoropentanoic Acid	PFPA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluorohexanoic Acid	PFHxA	0.0067	6.7	Y			LIQUID	FS	Drinking Water	39.52721	-81.5227
GC3Q23-118FritscheLn-PT	118FritscheLn-PT	912	8/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0022	2.2	Y			LIQUID	FS	Drinking Water	39.52721	-81.5227
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0041	4.1	Y	H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	PFOS	PFOS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	PFOA	PFOA	0.087	87	Y	H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0038	3.8	Y	H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
0823-11984StRt676	11984StRt676	1050	8/23/2023	DONA	DONA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.46526	-81.6467
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U,F1	UJ	Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Hfpo Dimer Acid	HFPO-DA	0.0017	1.7	Y			Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	PFOS	PFOS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U,F2		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	PFOA	PFOA	0.062	62	Y			Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluorohexanoic Acid	PFHxA	0.0017	1.7	N	U,F1,F2	UJ	Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U,F1	UJ	Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U,F2		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U,F2		Liquid	FS	Drinking Water	39.29178	-81.5985
1023-1199BraunRd	1199BraunRd	1058	10/16/2023	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.29178	-81.5985
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	PFOA	PFOA	0.097	97	Y			LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Hfpo Dimer Acid	HFPO-DA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluoroheptanoic Acid	PFHpA	0.0029	2.9	Y			LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorobutanoic Acid	PFBA	0.017	17	Y			LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0099	9.9	Y			LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	PFOS	PFOS	0.0055	5.5	Y			LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	DONA	DONA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.259144	-81.48296
GC3Q23-119WhisperingOaks-PT	119WhisperingOaksLn-PT	841	8/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0022	2.2	Y			LIQUID	FS	Drinking Water	39.259144	-81.48296
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluorodecanoic Acid	PFDA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Hfpo Dimer Acid	HFPO-DA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluorononanoic Acid	PFNA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluoroheptanoic Acid	PFHpA	0.0021	2.1	Y			LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluorohexanoic Acid	PFHxA	0.0047	4.7	Y			LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U,H		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	DONA	DONA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	PFOS	PFOS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	PFOA	PFOA	0.11	110	Y			LIQUID	FS	Drinking Water	39.37404	-81.7074
0923-1200RoddyRd	1200RoddyRd	1057	9/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.37404	-81.7074
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	Hfpo Dimer Acid	HFPO-DA	0.011	11	Y			LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0071	7.1	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-120SchoolhouseRd-PT	120SchoolhouseRd-PT	132	8/2/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.299618	-81.738001
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	PFOA	PFOA	0.54	540	Y			LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Hfpo Dimer Acid	HFPO-DA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	DONA	DONA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorobutanoic Acid	PFBA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluoroheptanoic Acid	PFHpA	0.023	23	Y			LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorohexanoic Acid	PFHxA	0.0057	5.7	Y			LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0078	7.8	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-1215LowGapRiverRd-PT	1215LowGapRiverRd-PT	648	8/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.197076	-81.729412
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	PFOS	PFOS	0.0016	1.6	Y			LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	PFOA	PFOA	0.038	38	Y			LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorobutanoic Acid	PFBA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorohexanoic Acid	PFHxA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0078	7.8	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
GC3Q23-130FerncliffDrNW-PT	130FerncliffDrNW-PT	935	8/17/2023	DONA	DONA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.48912	-81.4852
0319-1310DixonRd	1310DixonRd	882	3/26/2019	PFOA	PFOA	0.033	33	Y			Liquid	FS	Drinking Water	39.374441	-81.76942
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluoroheptanoic Acid	PFHpA	0.011	11	Y			Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Hfpo Dimer Acid	HFPO-DA	0.0030	3	Y			Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluorohexanoic Acid	PFHxA	0.0049	4.9	Y			Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	PFOA	PFOA	0.27	270	Y			Liquid	FS	Drinking Water	39.33082	-81.7624
0622-1310KennedyRd	1310KennedyRd	1016	6/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	Perfluoroheptanoic Acid	PFHpA	0.0067	6.7	Y			LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	Hfpo Dimer Acid	HFPO-DA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
GC3Q23-1310KennedyRd-PT	1310KennedyRd-PT	1016	8/2/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.33082	-81.7624
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Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-131SouthSt-PT	131SouthSt-PT	161	8/29/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.242340088	-81.57804871
GC3Q23-131SouthSt-PT	131SouthSt-PT	161	8/29/2023	Perfluorohexanoic Acid	PFHxA	0.0063	6.3	Y			LIQUID	FS	Drinking Water	39.242340088	-81.57804871
GC3Q23-131SouthSt-PT	131SouthSt-PT	161	8/29/2023	Perfluoropentanoic Acid	PFPA	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.242340088	-81.57804871
GC3Q23-131SouthSt-PT	131SouthSt-PT	161	8/29/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.242340088	-81.57804871
GC3Q23-131SouthSt-PT	131SouthSt-PT	161	8/29/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.017	17	N	U		LIQUID	FS	Drinking Water	39.242340088	-81.57804871
GC3Q23-131SouthSt-PT	131SouthSt-PT	161	8/29/2023	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.242340088	-81.57804871
GC3Q23-131SouthSt-PT	131SouthSt-PT	161	8/29/2023	PFECA B	PFECA B	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.242340088	-81.57804871
GC3Q23-131SouthSt-PT	131SouthSt-PT	161	8/29/2023	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.242340088	-81.57804871
0318-13448TickRidgeRd	13448TickRidgeRd	809	3/26/2018	PFOA	PFOA	0.100	100	Y			Liquid	FS	Drinking Water	39.386928	-81.91113
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.0051	5.1	Y			LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Hfpo Dimer Acid	HFPO-DA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	PFOA	PFOA	0.24	240	Y			LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorobutanoic Acid	PFBA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.0028	2.8	Y			LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
GC3Q23-13450BrillRd-PT	13450BrillRd-PT	210	8/9/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.384880085	-81.85784422
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U,H,F1	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	PFOS	PFOS	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	PFOA	PFOA	0.062	62	Y	H	J	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U,H,*-	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U,H,*-	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-13521TickRidgeRd	13521TickRidgeRd	1043	6/12/2023	DONA	DONA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.38725	-81.9089
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0035	3.5	Y			LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
0623-135RiverRd	135RiverRd	1045	6/28/2023	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.46282	-81.469
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluoroheptanoic Acid	PFHpA	0.049	49	Y			Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorononanoic Acid	PFNA	0.0090	9	Y	I	J	Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	PFECA B	PFECA B	0.0029	2.9	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Hfpo Dimer Acid	HFPO-DA	0.12	120	Y			Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	PFOS	PFOS	0.0036	3.6	Y	I	J	Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	PFOA	PFOA	3.7	3700	Y			Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorobutanoic Acid	PFBA	0.029	29	Y			Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluoropentanoic Acid	PFPA	0.018	18	Y			Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorohexanoic Acid	PFHxA	0.039	39	Y			Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0072	7.2	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	Y			Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
GC3Q23-138EmoryLn-PT	138EmoryLn-PT	372	8/2/2023	DONA	DONA	0.0058	5.8	N	U		Liquid	FS	Drinking Water	39.2743842	-81.689467
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	Hfpo Dimer Acid	HFPO-DA	0.0034	3.4	Y			Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	Perfluoroheptanoic Acid	PFHpA	0.0026	2.6	Y			Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	PFOA	PFOA	0.088	88	Y			Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	Perfluorohexanoic Acid	PFHxA	0.0041	4.1	Y			Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6/29/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.38862	-81.9073
0622-13926TickRidgeRd	13926TickRidgeRd	1020	6

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-140MasonicParkLn-PT	140MasonicParkLn-PT	991	8/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.48457	-81.4917
GC3Q23-140MasonicParkLn-PT	140MasonicParkLn-PT	991	8/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.48457	-81.4917
GC3Q23-140MasonicParkLn-PT	140MasonicParkLn-PT	991	8/17/2023	DONA	DONA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.48457	-81.4917
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	PFOA	PFOA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0522-140MoodyRidgeRd	140MoodyRidgeRd	1007	5/12/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31446	-81.6694
0618-14222MariettaRunRd	14222MariettaRunRd	831	6/26/2018	PFOA	PFOA	0.04	44	Y			Liquid	FS	Drinking Water	39.39774	-81.87536
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluoroheptanoic Acid	PFHpA	0.0038	3.8	Y			LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	PFECA B	PFECA B	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	PFECA-A	PFECA-A	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Hfpo Dimer Acid	HFPO-DA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	PFOA	PFOA	0.16	160	Y			LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorobutanoic Acid	PFBA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	PFECA-F	PFECA-F	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluoropentanoic Acid	PFPA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorohexanoic Acid	PFHxA	0.0033	3.3	Y			LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0081	8.1	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14274StRt339-PT	14274StRt339-PT	823	8/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.472758	-81.62826
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluoroheptanoic Acid	PFHpA	0.0080	8	Y			LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	PFOS	PFOS	0.0015	1.5	Y	I	J	LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	PFOA	PFOA	0.31	310	Y			LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorobutanoic Acid	PFBA	0.0054	5.4	Y			LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorohexanoic Acid	PFHxA	0.0065	6.5	Y			LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
GC3Q23-14324StRt339-PT	14324StRt339-PT	830	8/11/2023	DONA	DONA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.47335	-81.62887
0219-1433DixonRd	1433DixonRd	877	2/28/2019	PFOA	PFOA	0.160	160	Y			Liquid	FS	Drinking Water	39.375946	-81.76545
GC1Q20-1433DixonRd-Bed1	1433DixonRd-Bed1	877	1/28/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC2Q20-1433DixonRd-Bed1	1433DixonRd-Bed1	877	6/18/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q20-1433DixonRd-Bed1	1433DixonRd-Bed1	877	9/1/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC4Q20-1433DixonRd-Bed1	1433DixonRd-Bed1	877	11/11/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC1Q21-1433DixonRd-Bed1	1433DixonRd-Bed1	877	2/9/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC2Q21-1433DixonRd-Bed1	1433DixonRd-Bed1	877	4/22/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q21-1433DixonRd-Bed1	1433DixonRd-Bed1	877	7/27/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC4Q21-1433DixonRd-Bed1	1433DixonRd-Bed1	877	10/28/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC1Q22-1433DixonRd-Bed1	1433DixonRd-Bed1	877	2/3/2022	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC2Q22-1433DixonRd-Bed1	1433DixonRd-Bed1	877	4/19/2022	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-Bed1	1433DixonRd-Bed1	877	8/3/2022	PFOA	PFOA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.375946	-81.76545
GC4Q22-1433DixonRd-Bed1	1433DixonRd-Bed1	877	10/12/2022	PFOA	PFOA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC1Q23-1433DixonRd-Bed1	1433DixonRd-Bed1	877	1/19/2023	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC2Q23-1433DixonRd-Bed1	1433DixonRd-Bed1	877	4/26/2023	PFOA	PFOA	0.0017	1.7	N	U,H		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-Bed1	1433DixonRd-Bed1	877	8/1/2023	PFOA	PFOA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-Bed1-D	1433DixonRd-Bed1	877	8/1/2023	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	DUP	Drinking Water	39.375946	-81.76545
GC4Q23-1433DixonRd-Bed1	1433DixonRd-Bed1	877	10/19/2023	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC4Q23-1433DixonRd-Bed1-D	1433DixonRd-Bed1	877	10/19/2023	PFOA	PFOA	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	39.375946	-81.76545
GC3Q20-1433DixonRd-PT	1433DixonRd-PT	877	9/1/2020	PFOA	PFOA	0.1800	180	Y			Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q21-1433DixonRd-PT	1433DixonRd-PT	877	7/27/2021	PFOA	PFOA	0.1400	140	Y			Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	DONA	DONA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Hfpo Dimer Acid	HFPO-DA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluorobutane Sulfonic Acid	PFBS	0.01	7.2	Y			Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluoroheptanoic Acid	PFHpA	0.01	5.1	Y			Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluorohexanoic Acid	PFHxA	0.0	5	Y			Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluorononanoic Acid	PFNA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	Perfluoroundecanoic Acid	PFUnA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	PFOA	PFOA	0.1300	130	Y			Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q22-1433DixonRd-PT	1433DixonRd-PT	877	8/3/2022	PFOS	PFOS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	DONA	DONA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.006	6.1	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.006	6.1	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.006	6.1	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0150	15	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0076	7.6	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0380	38	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0380	38	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.01	6.1	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	DONA	DONA	0.006	6.1	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Hfpo Dimer Acid	HFPO-DA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.003	3	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0099	9.9	Y			LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorobutanoic Acid	PFBA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorodecane Sulfonic Acid	PFDS	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluoroheptanoic Acid	PFHpA	0.0063	6.3	Y			LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorohexanoic Acid	PFHxA	0	6.6	Y			LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorononanoic Acid	PFNA	0.00	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorooctane Sulfonamide	PFOSA	0.00	3.8	Y			LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluoropentanoic Acid	PFPA	0.003	3	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	PFECA-F	PFECA-F	0.00	3	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	PFOA	PFOA	0.1900	190	Y			LIQUID	FS	Drinking Water	39.375946	-81.76545
GC3Q23-1433DixonRd-PT	1433DixonRd-PT	877	8/1/2023	PFOS	PFOS	0.00	1.5	N	U		LIQUID	FS	Drinking Water	39.375946	-81.76545
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Hfpo Dimer Acid	HFPO-DA	0.0042	4.2	Y			Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluoroheptanoic Acid	PFHpA	0.011	11	Y			Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluorohexanoic Acid	PFHxA	0.0050	5	Y			Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	PFOA	PFOA	0.20	200	Y	F1	J	Liquid	FS	Drinking Water	39.35324	-81.5541
0923-14537StRt7NW	14537StRt7NW	1051	9/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.35324	-81.5541
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Hfpo Dimer Acid	HFPO-DA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	PFOA	PFOA	0.038	38	Y			LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorobutanoic Acid	PFBA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-1478EllisRunRd-PT	1478EllisRunRd-PT	729	8/9/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.34901069	-81.8480073
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0074	7.4	Y			LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	PFOA	PFOA	0.29	290	Y			LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorohexanoic Acid	PFHxA	0.0040	4	Y			LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.350071849	-81.55528253
GC3Q23-150Constitution-PT	150Constitution-PT	606	8/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	PFOA	PFOA	1.5	1500	Y			LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluorobutanoic Acid	PFBA	0.020	20	Y			LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluoropentanoic Acid	PFPA	0.0061	6.1	Y			LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluorohexanoic Acid	PFHxA	0.024	24	Y			LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0072	7.2	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-153MoodyRidgeRd-PT	153MoodyRidgeRd-PT	997	7/28/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.3122	-81.6708
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Hfpo Dimer Acid	HFPO-DA	0.020	20	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluoroheptanoic Acid	PFHpA	0.046	46	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0017	1.7	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	PFOS	PFOS	0.0023	2.3	Y	I	J	LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	PFOA	PFOA	2.0	2000	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorobutanoic Acid	PFBA	0.022	22	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluoropentanoic Acid	PFPA	0.013	13	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorohexanoic Acid	PFHxA	0.034	34	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.031	31	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0071	7.1	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0049	4.9	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	Y			LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-157ChloeLn-PT	157ChloeLn-PT	207	8/3/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.2420842	-81.70603
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Hfpo Dimer Acid	HFPO-DA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.0033	3.3	Y			LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0061	6.1	N	U	UJ	LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	PFOS	PFOS	0.0018	1.8	Y	I	J	LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	PFOA	PFOA	0.16	160	Y			LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorobutanoic Acid	PFBA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0076	7.6	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0064	6.4	Y			LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-15841TickRidgeRd-PT	15841TickRidgeRd-PT	937	8/9/2023	DONA	DONA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.42212	-81.8935
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.0077	7.7	Y			LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Hfpo Dimer Acid	HFPO-DA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	PFOA	PFOA	0.098	98	Y			LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluorobutanoic Acid	PFBA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.0027	2.7	Y			LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.42249	-81.8912
GC3Q23-16000TickRidgeRd-PT	16000TickRidgeRd-PT	933	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U	

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC2Q18-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	6/7/2018	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q18-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	8/31/2018	PFOA	PFOA	0.010	10	N	U	UJ	Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC4Q18-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	11/27/2018	PFOA	PFOA	0.0	10	N	<		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC1Q19-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	2/12/2019	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC2Q19-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	5/24/2019	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q19-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	8/30/2019	PFOA	PFOA	0.0	10	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC4Q19-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	10/31/2019	PFOA	PFOA	0.010	10	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC1Q20-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	1/28/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC2Q20-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	6/5/2020	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q20-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	9/8/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC4Q20-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	11/20/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC1Q21-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	2/23/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC2Q21-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	4/30/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q21-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	7/30/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC4Q21-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	11/1/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC1Q22-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	2/17/2022	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC2Q22-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	4/22/2022	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	8/8/2022	PFOA	PFOA	0.00	1.9	Y			Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC4Q22-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	10/25/2022	PFOA	PFOA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC1Q23-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	1/19/2023	PFOA	PFOA	0.002	1.7	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC2Q23-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	5/2/2023	PFOA	PFOA	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	8/9/2023	PFOA	PFOA	0.002	1.9	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC4Q23-16355TickRidgeRd-Bed1	16355TickRidgeRd-Bed1	786	10/23/2023	PFOA	PFOA	0.002	1.9	Y			LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q18-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/31/2018	PFOA	PFOA	0.037	37	Y		J	Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q19-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/30/2019	PFOA	PFOA	0.042	42	Y			LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q20-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	9/8/2020	PFOA	PFOA	0.033	33	Y			Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q21-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	7/30/2021	PFOA	PFOA	0.018	18	Y			Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluorodecanoic Acid	PFDA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	PFOA	PFOA	0.039	39	Y			Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Hfpo Dimer Acid	HFPO-DA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	DONA	DONA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	PFOS	PFOS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluorotetradecanoic Acid	PFTeA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluoroheptanoic Acid	PFHpA	0.002	1.7	Y			Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluorononanoic Acid	PFNA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluoroundecanoic Acid	PFUnA	0.0	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluorohexanoic Acid	PFHxA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluorododecanoic Acid	PFDoA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	Perfluorotridecanoic Acid	PFTriA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q22-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/8/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Hfpo Dimer Acid	HFPO-DA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFOA	PFOA	0.051	51	Y			LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorobutanoic Acid	PFBA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0077	7.7	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	Y			LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	DONA	DONA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.006	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.006	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.006	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.008	7.7	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.006	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.006	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	DONA	DONA	0.006	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Hfpo Dimer Acid	HFPO-DA	0.006	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorobutanoic Acid	PFBA	0.006	6.2	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorodecanoic Acid	PFDA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.00	2.4	Y			LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorononanesulfonic Acid	PFNS	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorononanoic Acid	PFNA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.002	1.5	Y			LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoropentanoic Acid	PFPA	0.003	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFECA B	PFECA B	0.003	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFECA-A	PFECA-A	0.003	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFECA-F	PFECA-F	0.003	3.1	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFOA	PFOA	0.051	51	Y			LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16355TickRidgeRd-PT	16355TickRidgeRd-PT	786	8/9/2023	PFOS	PFOS	0.002	1.5	N	U		LIQUID	FS	Drinking Water	39.42797921	-81.8886801
GC3Q23-16551TickRidgeRd-PT	16551TickRidgeRd-PT	771	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.43098106	-81.8841264
GC3Q23-16551TickRidgeRd-PT	16551TickRidgeRd-PT	771	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.0054	5.4	Y			LIQUID	FS	Drinking Water	39.43098106	-81.8841264
GC3Q23-16551TickRidgeRd-PT	16551TickRidgeRd-PT	771	8/9/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.43098106	-81.8841264
GC3Q23-16551TickRidgeRd-PT	16551TickRidgeRd-PT	771	8/9/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	PFOS	PFOS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	PFOA	PFOA	0.13	130	Y			LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluorobutanoic Acid	PFBA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.0031	3.1	Y			LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0067	6.7	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
GC3Q23-16999MurphyRd-PT	16999MurphyRd-PT	863	8/9/2023	DONA	DONA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.439296	-81.85322
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U,H,F1,*-	UJ	Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	DONA	DONA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	PFOS	PFOS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	PFOA	PFOA	0.0024	2.4	Y	H		Liquid	FS	Drinking Water	39.43658	-81.8656
0622-17099PlantsvilleRd	17099PlantsvilleRd	1018	6/28/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43658	-81.8656
1118-1718TornesRd	1718TornesRd	868	11/13/2018	PFOA	PFOA	0.078	78	Y			Liquid	FS	Drinking Water	39.488818	-81.53602
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorodecanoic Acid	PFDA	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Hfpo Dimer Acid	HFPO-DA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	Y			LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluoroheptanoic Acid	PFHpA	0.0060	6	Y			LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	PFOA	PFOA	0.086	86	Y			LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorobutanoic Acid	PFBA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluoropentanoic Acid	PFPA	0.0045	4.5	Y			LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorohexanoic Acid	PFHxA	0.0073	7.3	Y			LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	Perfluorooctane Sulfonamide	PFOSA	0.0021	2.1	Y			LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
GC3Q23-1734StRt124-PT	1734StRt124-PT	343	8/3/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.231155638	-81.70802219
0321-1735HendershotRd	1735HendershotRd	953	3/4/2021	PFOA	PFOA	0.19	190	Y			Liquid	FS	Drinking Water	39.50059	-81.592
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluoroheptanoic Acid	PFHpA	0.0023	2.3	Y	H	J	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluorohexanoic Acid	PFHxA	0.0025	2.5	Y	H	J	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U,H,*+	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U,H,*+	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	DONA	DONA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	PFOS	PFOS	0.0031	3.1	Y	H	J	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	PFOA	PFOA	0.031	31	Y	H	J	Liquid	FS	Drinking Water	39.43882	-81.8795
0722-17370SweatRd	17370SweatRd	1021	7/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.43882	-81.8795
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Hfpo Dimer Acid	HFPO-DA	0.067	67	Y			LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluoroheptanoic Acid	PFHpA	0.097	97	Y			LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	PFOA	PFOA	2.3	2300	Y			LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluorobutanoic Acid	PFBA	0.093	93	Y			LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluoropentanoic Acid	PFPA	0.037	37	Y			LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluorohexanoic Acid	PFHxA	0.092	92	Y			LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0040	4	Y			LIQUID	FS	Drinking Water	39.2831008	-81.653167
GC3Q23-174StRt339-PT	174StRt339-PT	228	7/26/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.2831008

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-1766PleasantHillRd-PT	1766PleasantHillRd-PT	131	8/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.210434	-81.577599
GC3Q23-1766PleasantHillRd-PT	1766PleasantHillRd-PT	131	8/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.210434	-81.577599
GC3Q23-1766PleasantHillRd-PT	1766PleasantHillRd-PT	131	8/25/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.210434	-81.577599
GC3Q23-1766PleasantHillRd-PT	1766PleasantHillRd-PT	131	8/25/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.210434	-81.577599
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	PFOA	PFOA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
0522-1771HickmanRd	1771HickmanRd	1015	5/31/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42967	-81.7113
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.0034	3.4	Y			LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	PFOA	PFOA	0.12	120	Y			LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorobutanoic Acid	PFBA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-18219StRt555-PT	18219StRt555-PT	970	8/8/2023	DONA	DONA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.4465	-81.8143
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluoroheptanoic Acid	PFHpA	0.031	31	Y			LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorononanoic Acid	PFNA	0.0017	1.7	Y			LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Hfpo Dimer Acid	HFPO-DA	0.050	50	Y			LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	PFOA	PFOA	1.2	1200	Y			LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorobutanoic Acid	PFBA	0.014	14	Y			LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluoropentanoic Acid	PFPA	0.012	12	Y			LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorohexanoic Acid	PFHxA	0.025	25	Y			LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0073	7.3	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	Y			LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	Perfluorooctane Sulfonamide	PFOSA	0.0018	1.8	Y			LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1831StRt124-PT	1831StRt124-PT	342	8/3/2023	DONA	DONA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.232263223	-81.70910362
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluoroheptanoic Acid	PFHpA	0.0056	5.6	Y			LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Hfpo Dimer Acid	HFPO-DA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	PFOA	PFOA	0.32	320	Y			LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluorobutanoic Acid	PFBA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluorohexanoic Acid	PFHxA	0.0035	3.5	Y			LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833SchoolhouseRd-PT	1833SchoolhouseRd-PT	421	7/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3002342	-81.712367
GC3Q23-1833S

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-1850RobertsRd-PT	1850RobertsRd-PT	776	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.041	41	N	U		LIQUID	FS	Drinking Water	39.43687913	-81.82973
GC3Q23-1850RobertsRd-PT	1850RobertsRd-PT	776	8/9/2023	DONA	DONA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.43687913	-81.82973
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	Y			LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	PFOA	PFOA	0.078	78	Y			LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorobutanoic Acid	PFBA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1860MasonicParkRd-PT	1860MasonicParkRd-PT	680	8/17/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.48583	-81.4835
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Hfpo Dimer Acid	HFPO-DA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluoroheptanoic Acid	PFHpA	0.033	33	Y			LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0075	7.5	Y			LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	PFOA	PFOA	0.32	320	Y			LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorobutanoic Acid	PFBA	0.068	68	Y			LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluoropentanoic Acid	PFPA	0.048	48	Y			LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorohexanoic Acid	PFHxA	0.059	59	Y			LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0068	6.8	Y			LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0071	7.1	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorobutane Sulfonic Acid	PFBS	0.022	22	Y			LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1873StRt618-PT	1873StRt618-PT	856	7/26/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.279575	-81.64492
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluoroheptanoic Acid	PFHpA	0.0021	2.1	Y			LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	PFOA	PFOA	0.067	67	Y			LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorobutanoic Acid	PFBA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluoropentanoic Acid	PFPA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0071	7.1	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-1882MasonicParkRd-PT	1882MasonicParkRd-PT	699	8/17/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.486965	-81.4865
GC3Q23-18843SandRockRd-PT	18843SandRockRd-PT	963	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.3914	-81.9299
GC3Q23-18843SandRockRd-PT	18843SandRockRd-PT	963	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0077	7.7	Y			LIQUID	FS	Drinking Water	39.3914	-81.9299
GC3Q23-18843SandRockRd-PT	18843SandRockRd-PT	963	8/15/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.3914	-81.9299
GC3Q23-18843SandRockRd-PT	18843SandRockRd-PT	963	8/15/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3914	-81.9299
GC3Q23-18843SandRockRd-PT	18843SandRockRd-PT	963	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.3914	-81.9299
GC3Q23-18843SandRockRd-PT	18843SandRockRd-PT	963	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3914	-81.9299
GC3Q23-18843SandRockRd-PT	18843SandRockRd-PT	963	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.3914	-81.9299
GC3Q23-18843SandRockRd-PT	18843SandRockRd-PT	963	8/15/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.3914	-81.9299

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0036	3.6	Y			LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0077	7.7	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	DONA	DONA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorobutanoic Acid	PFBA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.013	13	Y			LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-190HarrisFerryRd-PT	190HarrisFerryRd-PT	800	8/23/2023	PFOA	PFOA	0.28	280	Y			LIQUID	FS	Drinking Water	39.177963	-81.74644
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Hfpo Dimer Acid	HFPO-DA	0.0075	7.5	Y			LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluoroheptanoic Acid	PFHpA	0.022	22	Y			LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	PFOA	PFOA	1.7	1700	Y			LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorobutanoic Acid	PFBA	0.0078	7.8	Y			LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluoropentanoic Acid	PFPA	0.0047	4.7	Y			LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorohexanoic Acid	PFHxA	0.016	16	Y			LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0071	7.1	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-1910TwinBridgeRd-PT	1910TwinBridgeRd-PT	410	8/4/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.27698	-81.7165
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.0093	9.3	Y			LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	PFOS	PFOS	0.0040	4	Y			LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	PFOA	PFOA	0.34	340	Y			LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorobutanoic Acid	PFBA	0.0062	6.2	Y			LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.0059	5.9	Y			LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	Y			LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0025	2.5	Y			LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
GC3Q23-19223SandRockRd-PT	19223SandRockRd-PT	753	8/9/2023	DONA	DONA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.38760167	-81.9224387
0821-19336StRt550	19336StRt550	976	8/13/2021	PFOA	PFOA	0.038	38	Y			Liquid	FS	Drinking Water	39.42933	-81.9182
GC3Q23-1939PondCreekRd-PT	1939PondCreekRd-PT	477	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.0955849	-81.714745
GC3Q23-1939PondCreekRd-PT	1939PondCreekRd-PT	477	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.0955849	-81.714745
GC3Q23-1939PondCreekRd-PT	1939PondCreekRd-PT	477	8/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.0955849	-81.714745
GC3Q23-1939PondCreekRd-PT	1939PondCreekRd-PT	477	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.0955849	-81.714745
GC3Q23-1939PondCreekRd-PT	1939PondCreekRd-PT	477	8/23/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.0955849	-81.714745
GC3Q23-1939PondCreekRd-PT	1939PondCreekRd-PT	477	8/23/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.0955849	-81.714745
GC3Q23-1939

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
0822-198OrangeDr	198OrangeDr	1028	8/10/2022	Hfpo Dimer Acid	HFPO-DA	0.0016	1.6	N	U	UJ	Liquid	FS	Drinking Water	39.36681	-81.4886
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.0035	3.5	Y			LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	PFOA	PFOA	0.11	110	Y			LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorobutanoic Acid	PFBA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	Y			LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0026	2.6	Y			LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19933FeltonRd-PT	19933FeltonRd-PT	759	8/9/2023	DONA	DONA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.37061869	-81.910186
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.037	37	Y			LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	Perfluorononanoic Acid	PFNA	0.0022	2.2	Y			LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	Hfpo Dimer Acid	HFPO-DA	0.024	24	Y			LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
GC3Q23-19MeadowcrestLn-PT	19MeadowcrestLn-PT	69	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2833675	-81.699601
201711291AM	1AM		11/29/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711291AM	1AM		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711291AS	1AS		11/29/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711291AS	1AS		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Hfpo Dimer Acid	HFPO-DA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	PFOA	PFOA	0.13	130	Y			Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	PFOS	PFOS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluoroheptanoic Acid	PFHpA	0.018	18	Y			Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluorohexanoic Acid	PFHxA	0.0067	6.7	Y			Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0923-1RiverBendLn	1RiverbendLn	1053	9/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.17956	-81.752
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	PFOA	PFOA	0.042	42	Y			Liquid	FS	Drinking Water	39.42754	-81.7308
0522-2001BrownriggRd	2001BrownriggRd	1014	5/31/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42754	-81.7308
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.011	11	Y			LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	PFOA	PFOA	0.24	240	Y			LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorobutanoic Acid	PFBA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluoropentanoic Acid	PFPA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.0061	6.1	Y			LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0073	7.3	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49953	-81.5441
GC3Q23-200OllochHillRd-PT	200OllochHillRd-PT	890.2	8/15/2023	Perfluorooctane Sulfonamide	PFOSA	0

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC4Q22-20262SandRockRd-Bed1	20262SandRockRd-Bed1	811	10/25/2022	PFOA	PFOA	0.0049	4.9	Y			LIQUID	FS	Drinking Water	39.366359	-81.90033
GC1Q23-20262SandRockRd-Bed1	20262SandRockRd-Bed1	811	2/28/2023	PFOA	PFOA	0.0093	9.3	Y			LIQUID	FS	Drinking Water	39.366359	-81.90033
GC2Q23-20262SandRockRd-Bed1	20262SandRockRd-Bed1	811	5/2/2023	PFOA	PFOA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-Bed1	20262SandRockRd-Bed1	811	8/15/2023	PFOA	PFOA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC4Q23-20262SandRockRd-Bed1	20262SandRockRd-Bed1	811	10/23/2023	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q18-20262SandRockRd-PT	20262SandRockRd-PT	811	8/31/2018	PFOA	PFOA	0.1300	130	Y			Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q19-20262SandRockRd-PT	20262SandRockRd-PT	811	8/30/2019	PFOA	PFOA	0.0800	80	Y			LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q20-20262SandRockRd-PT	20262SandRockRd-PT	811	9/8/2020	PFOA	PFOA	0.1200	120	Y			Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q21-20262SandRockRd-PT	20262SandRockRd-PT	811	7/30/2021	PFOA	PFOA	0.0390	39	Y			Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluoroheptanoic Acid	PFHpA	0.002	1.7	Y			Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	PFOA	PFOA	0.063	63	Y			Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Hfpo Dimer Acid	HFPO-DA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluorohexanoic Acid	PFHxA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluorononanoic Acid	PFNA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	PFOS	PFOS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q22-20262SandRockRd-PT	20262SandRockRd-PT	811	8/8/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0025	2.5	Y			LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFOA	PFOA	0.11	110	Y			LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorobutanoic Acid	PFBA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	DONA	DONA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.003	2.7	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorobutanoic Acid	PFBA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0025	2.5	Y			LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.0	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFECA-F	PFECA-F	0.003	2.7	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFOA	PFOA	0.1100	110	Y			LIQUID	FS	Drinking Water	39.366359	-81.90033
GC3Q23-20262SandRockRd-PT	20262SandRockRd-PT	811	8/15/2023	PFOS	PFOS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.366359	-81.90033
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	PFOS	PFOS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	PFOA	PFOA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U,H,*+		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U,H,*+		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0722-2035RobertsRd	2035RobertsRd	1022	7/13/2022	DONA	DONA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.43828	-81.8326
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluoroheptanoic Acid	PFHpA	0.0033	3.3	Y			Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	PFOA	PFOA	0.047	47	Y			Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluorohexanoic Acid	PFHxA	0.0021	2.1	Y			Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U,F1	UJ	Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0522-20500SandRockRd	20500SandRockRd	1009	5/24/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.36519	-81.899
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluoroheptanoic Acid	PFHpA	0.0091	9.1	Y			Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluorohexanoic Acid	PFHxA	0.0042	4.2	Y			Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0022	2.2	Y			Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	PFOA	PFOA	0.25	250	Y			Liquid	FS	Drinking Water	39.1859	-81.7589
0822-205StRt124	205StRt124	1027	8/10/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.1859	-81.7589
0522-2092BrownriggRd	2092BrownriggRd	1013	5/31/2022	Hfpo Dimer Acid	HFPO

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	PFECA B	PFECA B	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Hfpo Dimer Acid	HFPO-DA	0.040	40	Y			Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	PFOS	PFOS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	PFOA	PFOA	1.6	1600	Y			Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorobutanoic Acid	PFBA	0.0075	7.5	Y			Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorohexanoic Acid	PFHxA	0.016	16	Y			Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
GC3Q23-2096OxbowRd-PT	2096OxbowRd-PT	148	8/2/2023	DONA	DONA	0.0056	5.6	N	U		Liquid	FS	Drinking Water	39.328361211	-81.63886942
0522-21155StRt550	21155StRt550	1011	5/25/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	PFOA	PFOA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
0522-21155StRt550	21155StRt550	1011	5/25/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.43145	-81.8826
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluoroheptanoic Acid	PFHpA	0.020	20	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	PFECA B	PFECA B	0.0030	3	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorononanoic Acid	PFNA	0.0028	2.8	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Hfpo Dimer Acid	HFPO-DA	0.081	81	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	PFECA-A	PFECA-A	0.0030	3	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	PFOS	PFOS	0.0039	3.9	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	PFOA	PFOA	1.0	1000	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorobutanoic Acid	PFBA	0.015	15	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	PFECA-F	PFECA-F	0.0030	3	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluoropentanoic Acid	PFPA	0.0078	7.8	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorohexanoic Acid	PFHxA	0.018	18	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0021	2.1	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0075	7.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y			Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.037	37	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.037	37	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2128StRt339-PT	2128StRt339-PT	596	8/3/2023	DONA	DONA	0.0060	6	N	U		Liquid	FS	Drinking Water	39.310003675	-81.66275281
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0036	3.6	Y			LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	PFOA	PFOA	0.15	150	Y			LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorobutanoic Acid	PFBA	0.0073	7.3	Y			LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluoropentanoic Acid	PFPA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.0037	3.7	Y			LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0073	7.3	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.43001	-81.7303
GC3Q23-2145BrownriggRd-PT	2145BrownriggRd-PT	819	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	PFOA	PFOA	0.10	100	Y			LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Hfpo Dimer Acid	HFPO-DA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	PFECA-F	PFECA-F	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluoroheptanoic Acid	PFHpA	0.0050	5	Y			LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorobutanoic Acid	PFBA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	PFECA-A	PFECA-A	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	DONA	DONA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0079	7.9	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	6:2 Fluorotelomer Carboxylic Acid	6:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorohexanoic Acid	PFHxA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluoropentanoic Acid	PFPA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
GC3Q23-2205RobinhoodRd-PT	2205RobinhoodRd-PT	646	8/28/2023	PFECA B	PFECA B	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.169471741	-81.74601746
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	Y			Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	Y			Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	PFOA	PFOA	0.039	39	Y			Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluorohexanoic Acid	PFHxA	0.0022	2.2	Y			Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U,F1		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
0622-22153StRt550	22153StRt550	984	6/14/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.42919	-81.8632
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0017	1.7	Y			LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	Y			LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	DONA	DONA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorobutanoic Acid	PFBA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0032	3.2	Y			LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	PFOA	PFOA	0.17	170	Y			LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
GC3Q23-2263Champion-PT	2263ChampionSchool-PT	521	8/23/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1678505	-81.717804
0921-22845StRt550	22845StRt550	983	9/27/2021	PFOA	PFOA	0.020	20	Y			Liquid	FS	Drinking Water	39.42747	-81.851
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorohexanoic Acid	PFHxA	0.0030	3	Y			LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.0027	2.7	Y			LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0022	2.2	Y			LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0049	4.9	Y			LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.17931	-81.701
GC3Q23-2308PineRunRd-PT	2308PineRunRd-PT	2	8/24/2023	1H,1H,2H,2H-perfluorodec

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	Perfluoropentanoic Acid	PFPA	0.017	17	Y			LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	Perfluorohexanoic Acid	PFHxA	0.050	50	Y			LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0051	5.1	Y			LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	Y			LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
GC3Q23-2341NewburyRd-PT	2341NewburyRd-PT	563	8/1/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2407933	-81.70586
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	PFOS	PFOS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	PFOA	PFOA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
0923-2425RobertsRd	2425RobertsRd	1054	9/18/2023	DONA	DONA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.43663	-81.8385
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorohexanoic Acid	PFHxA	0.0027	2.7	Y			LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorobutanoic Acid	PFBA	0.0063	6.3	Y			LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	PFOA	PFOA	0.070	70	Y			LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
GC3Q23-2430PineRunRd-PT	2430PineRunRd-PT	1	8/24/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1820679	-81.704582
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluorononanoic Acid	PFNA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluoroheptanoic Acid	PFHpA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluorodecanoic Acid	PFDA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Hfpo Dimer Acid	HFPO-DA	0.091	91	N	U,*-	UJ	LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluorododecanoic Acid	PFDoA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluorohexanoic Acid	PFHxA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluorotetradecanoic Acid	PFTeA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluorotridecanoic Acid	PFTriA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	DONA	DONA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	Perfluoroundecanoic Acid	PFUnA	0.091	91	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	PFOA	PFOA	2.4	2400	Y			LIQUID	FS	Drinking Water	39.29543	-81.703
0922-2460SchoolHouseRd	2460SchoolHouseRd	1034	9/28/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorononanoic Acid	PFNA	0.0022	2.2	Y	I	J	LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluoroheptanoic Acid	PFHpA	0.054	54	Y			LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Hfpo Dimer Acid	HFPO-DA	0.029	29	Y			LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	PFOA	PFOA	3.1	3100	Y			LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorobutanoic Acid	PFBA	0.025	25	Y			LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluoropentanoic Acid	PFPA	0.010	10	Y			LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorohexanoic Acid	PFHxA	0.031	31	Y			LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2460SchoolhouseRd-PT	2460SchoolhouseRd-PT	1034	8/2/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.29543	-81.703
GC3Q23-2481StRt124-PT	2481StRt124-PT	60	8/2/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		Liquid

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.013	13	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluorododecanoic Acid	PFDoA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluorononanesulfonic Acid	PFNS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	PFOS	PFOS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluoroundecanoic Acid	PFUnA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	PFOA	PFOA	0.51	510	Y			LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluorobutanoic Acid	PFBA	0.014	14	Y			LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluorohexanoic Acid	PFHxA	0.0056	5.6	Y			LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0067	6.7	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluorotetradecanoic Acid	PFTeA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluorotridecanoic Acid	PFTriA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	Perfluorooctane Sulfonamide	PFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2490VickersRd-PT	2490VickersRd-PT	546	8/1/2023	DONA	DONA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.380219864	-81.5606526
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluoroheptanoic Acid	PFHpA	0.015	15	Y			LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	PFOA	PFOA	0.64	640	Y			LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorobutanoic Acid	PFBA	0.012	12	Y			LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluoropentanoic Acid	PFPA	0.0047	4.7	Y			LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorohexanoic Acid	PFHxA	0.011	11	Y			LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	Y			LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-2500WelchRd-PT	2500WelchRd-PT	386	8/2/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.318901	-81.785717
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluoroheptanoic Acid	PFHpA	0.0056	5.6	Y			LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	PFOA	PFOA	0.094	94	Y			LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	Y			LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	Y			LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorohexanoic Acid	PFHxA	0.0061	6.1	Y			LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	Y			LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0050	5	Y			LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
GC3Q23-250MasonicParkLn-PT	250MasonicParkLn-PT	992	8/17/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48394	-81.4918
0918-25105WHornsbyRd	25105WHornsbyRd	453	9/25/2018	PFOA	PFOA	0.160	160	Y			Liquid	FS	Drinking Water	39.19383	-81.82195
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	PFOA	PFOA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	DONA	DONA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	PFOS	PFOS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
0823-2536ChampionSchool	2536ChampionSchool	1049	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.1744	-81.7163
GC3Q23-2538BosnerRidgeRd-PT	2538BosnerRidgeRd-PT	892	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.51442	-81.5452
GC3Q23-2538BosnerRidgeRd-PT	2538BosnerRidgeRd-PT	892	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0094	9.4	Y			LIQUID	FS	Drinking Water	39.51442	-81.5452
GC3Q23-2538BosnerRidgeRd-PT	2538BosnerRidgeRd-PT	892	8/15/2023	Perfluorononanoic Acid	P

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	PFOS	PFOS	0.0034	3.4	Y	I	J	LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	PFOA	PFOA	0.22	220	Y			LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorobutanoic Acid	PFBA	0.0094	9.4	Y			LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluoropentanoic Acid	PFPA	0.0038	3.8	Y			LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.0061	6.1	Y			LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0077	7.7	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2548BosnerRidgeRd-PT	2548BosnerRidgeRd-PT	908	8/15/2023	DONA	DONA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.51703	-81.5437
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	PFOA	PFOA	0.22	220	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Hfpo Dimer Acid	HFPO-DA	0.016	16	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluoroheptanoic Acid	PFHpA	0.0061	6.1	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0066	6.6	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorobutanoic Acid	PFBA	0.010	10	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	PFOS	PFOS	0.0045	4.5	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	DONA	DONA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorooctane Sulfonamide	PFOSA	0.0028	2.8	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0076	7.6	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorohexanoic Acid	PFHxA	0.0061	6.1	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluoropentanoic Acid	PFPA	0.0032	3.2	Y			LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-2588PineRunRd-PT	2588PineRunRd-PT	20	8/31/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.1830063	-81.707802
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	PFOA	PFOA	0.26	260	Y			LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Hfpo Dimer Acid	HFPO-DA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0063	6.3	Y			LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorobutanoic Acid	PFBA	0.0083	8.3	Y			LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	DONA	DONA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0072	7.2	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorohexanoic Acid	PFHxA	0.0053	5.3	Y			LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluoropentanoic Acid	PFPA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-258HershoffLn-PT	258HershoffLn-PT	429	8/25/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.226257324	-81.5796051
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Hfpo Dimer Acid	HFPO-DA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.019	19	Y			LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	PFOA	PFOA	0.23	230	Y			LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	Perfluorobutanoic Acid	PFBA	0.015	15	Y			LIQUID	FS	Drinking Water	39.276821	-81.613801
GC3Q23-2610BeachDr-PT	2610BeachDr-PT	588	8/8/2023	PFECA-F	PFECA-F	0.0029	2.9

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	PFOA	PFOA	0.25	250	Y			LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluorobutanoic Acid	PFBA	0.0097	9.7	Y			LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluoropentanoic Acid	PFPA	0.0053	5.3	Y			LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluorohexanoic Acid	PFHxA	0.0094	9.4	Y			LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0078	7.8	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0071	7.1	Y			LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-2675MuskingumRiver-PT	2675MuskingumRiverRd-PT	748	8/30/2023	DONA	DONA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.49611194	-81.4875284
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Hfpo Dimer Acid	HFPO-DA	0.012	12	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	PFOS	PFOS	0.0044	4.4	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	PFOA	PFOA	0.55	550	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorobutanoic Acid	PFBA	0.021	21	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluoropentanoic Acid	PFPA	0.013	13	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorohexanoic Acid	PFHxA	0.023	23	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0026	2.6	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0072	7.2	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0074	7.4	Y			LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.0034	3.4	Y	I	J	LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-26890WBelprePike-PT	26890WBelprePike-PT	74	7/28/2023	DONA	DONA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2312509	-81.784901
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Hfpo Dimer Acid	HFPO-DA	0.0078	7.8	Y			LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluoroheptanoic Acid	PFHpA	0.038	38	Y			LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	PFOA	PFOA	0.61	610	Y			LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorobutanoic Acid	PFBA	0.014	14	Y			LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluoropentanoic Acid	PFPA	0.0059	5.9	Y			LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorohexanoic Acid	PFHxA	0.021	21	Y			LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0072	7.2	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0067	6.7	Y			LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2699BeachDr-PT	2699BeachDr-PT	951	9/5/2023	DONA	DONA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.27629	-81.6153
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Perfluoroheptanoic Acid	PFHpA	0.019	19	Y			LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2762044	-81.615701
GC3Q23-2701BeachDr-PT	2701BeachDr-PT	139	7/26/2023	Perfluoro(2-ethoxyethane)sulfonic Ac

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	PFOA	PFOA	0.20	200	Y			LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluorobutanoic Acid	PFBA	0.016	16	Y			LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluoropentanoic Acid	PFPA	0.0059	5.9	Y			LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluorohexanoic Acid	PFHxA	0.018	18	Y			LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	Y			LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0040	4	Y			LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	Y			LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2711BeachDr-PT	2711BeachDr-PT	573	7/26/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2760878	-81.616401
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Hfpo Dimer Acid	HFPO-DA	0.0061	6.1	Y			LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluoroheptanoic Acid	PFHpA	0.028	28	Y			LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	PFOA	PFOA	0.25	250	Y			LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorobutanoic Acid	PFBA	0.020	20	Y			LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluoropentanoic Acid	PFPA	0.0074	7.4	Y			LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorohexanoic Acid	PFHxA	0.017	17	Y			LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	Y			LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0030	3	Y			LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2715BeachDr-PT	2715BeachDr-PT	63	8/10/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.2758211	-81.616684
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Hfpo Dimer Acid	HFPO-DA	0.0066	6.6	Y			LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.049	49	Y			LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	PFOA	PFOA	0.42	420	Y			LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorobutanoic Acid	PFBA	0.026	26	Y			LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluoropentanoic Acid	PFPA	0.012	12	Y			LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorohexanoic Acid	PFHxA	0.032	32	Y			LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0038	3.8	Y			LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0073	7.3	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorobutane Sulfonic Acid	PFBS	0.011	11	Y			LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2719BeachDr-PT	2719BeachDr-PT	3	8/8/2023	DONA	DONA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.2756189	-81.617691
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.080	80	Y			LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Hfpo Dimer Acid	HFPO-DA	0.055	55	Y			LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	PFOA	PFOA	1.6	1600	Y			LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	Perfluorobutanoic Acid	PFBA	0.041	41	Y			LIQUID	FS	Drinking Water	39.2754613	-81.6184
GC3Q23-2725BeachDr-PT	2725BeachDr-PT	160	8/8/2023	PFECA-F	PFECA-F	0.0027	2.

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-2727BeachDr-PT	2727BeachDr-PT	267	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2757377	-81.618567
GC3Q23-2727BeachDr-PT	2727BeachDr-PT	267	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2757377	-81.618567
GC3Q23-2727BeachDr-PT	2727BeachDr-PT	267	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	Y	I	J	LIQUID	FS	Drinking Water	39.2757377	-81.618567
GC3Q23-2727BeachDr-PT	2727BeachDr-PT	267	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.2757377	-81.618567
GC3Q23-2727BeachDr-PT	2727BeachDr-PT	267	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.2757377	-81.618567
GC3Q23-2727BeachDr-PT	2727BeachDr-PT	267	8/9/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2757377	-81.618567
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluoroheptanoic Acid	PFHpA	0.014	14	Y			LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	PFOS	PFOS	0.0096	9.6	Y			LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	PFOA	PFOA	0.37	370	Y			LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorobutanoic Acid	PFBA	0.0077	7.7	Y			LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluoropentanoic Acid	PFPA	0.0038	3.8	Y			LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorohexanoic Acid	PFHxA	0.012	12	Y			LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	Y		B	LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.011	11	Y			LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.0031	3.1	Y			LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
GC3Q23-2750StRt144-PT	2750StRt144-PT	578	7/28/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.221849537	-81.78258731
0821-275StRt550	275StRt550	981	8/31/2021	PFOA	PFOA	0.036	36	Y			Liquid	FS	Drinking Water	39.42649	-81.8419
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0026	2.6	Y			LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	PFOA	PFOA	0.15	150	Y			LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorobutanoic Acid	PFBA	0.0070	7	Y			LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluoropentanoic Acid	PFPA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorohexanoic Acid	PFHxA	0.0040	4	Y			LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0073	7.3	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2766RainbowRd-PT	2766RainbowRd-PT	716	8/18/2023	DONA	DONA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.49265519	-81.5565331
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.049	49	Y			LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	PFOA	PFOA	0.24	240	Y			LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorobutanoic Acid	PFBA	0.039	39	Y			LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluoropentanoic Acid	PFPA	0.014	14	Y			LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorohexanoic Acid	PFHxA	0.037	37	Y			LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0037	3.7	Y			LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
GC3Q23-2809BeachDr-PT	2809BeachDr-PT	468	8/8/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2752523	-81.619926
0822-28196RockRunRd	28196RockRunRd	1023	8/10/2022	Perfluorononanoic Acid	PFNA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.18777	-81.764
0822-28196RockRunRd	28196RockRunRd	1023	8/10/2022	Perfluoroheptanoic Acid	PFHpA	0.012	12	Y			Liquid	FS	Drinking Water	39.18777	-81.764
0822-28196RockRunRd	28196RockRunRd	1023	8/10/2022	Perfluorodecanoic Acid	PFDA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.18777	-81.764
0822-28196RockRunRd	28196RockRunRd	1023	8/10/2022	Hfpo Dimer Acid	HFPO-DA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.18777	-81.764
0822-28196RockRunRd	28196RockRunRd	1023	8/10/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.18777	-81.764
0822-28196RockRunRd	28196RockRunRd	1023	8/10/2022	Perfluorododecanoic Acid	PFDoA	0.0091	9.1	N	U	

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	PFOA	PFOA	0.089	89	Y			LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluorobutanoic Acid	PFBA	0.037	37	Y			LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluoropentanoic Acid	PFPA	0.014	14	Y			LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluorohexanoic Acid	PFHxA	0.030	30	Y			LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0078	7.8	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
GC3Q23-2819BeachDr-PT	2819BeachDr-PT	938	7/26/2023	DONA	DONA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.2753	-81.622
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluoroheptanoic Acid	PFHpA	0.010	10	Y			Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Hfpo Dimer Acid	HFPO-DA	0.020	20	Y			Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluorohexanoic Acid	PFHxA	0.0077	7.7	Y			Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0035	3.5	Y			Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	PFOA	PFOA	0.29	290	Y			Liquid	FS	Drinking Water	39.18782	-81.7621
0822-28300RockRunRd	28300RockRunRd	1025	8/10/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.18782	-81.7621
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluoroheptanoic Acid	PFHpA	0.024	24	Y			LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	PFOS	PFOS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	PFOA	PFOA	0.18	180	Y	F1	J	LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluorohexanoic Acid	PFHxA	0.033	33	Y			LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
1023-2837ABeachDr	2837ABeachDr	508	10/9/2023	DONA	DONA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.27505	-81.6233
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluoroheptanoic Acid	PFHpA	0.035	35	Y			LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Hfpo Dimer Acid	HFPO-DA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	PFOA	PFOA	0.44	440	Y			LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorobutanoic Acid	PFBA	0.037	37	Y			LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluoropentanoic Acid	PFPA	0.014	14	Y			LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorohexanoic Acid	PFHxA	0.040	40	Y			LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0021	2.1	Y			LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0071	7.1	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2837BBeachDr-PT	2837BBeachDr-PT	864	7/26/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.274238	-81.62247
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.030	30	Y			LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Hfpo Dimer Acid	HFPO-DA	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	PFOA	PFOA	0.31	310	Y			LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorobutanoic Acid	PFBA	0.040	40	Y			LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluoropentanoic Acid	PFPA	0.011	11	Y			LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorohexanoic Acid	PFHxA	0.039	39	Y			LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0074	7.4	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2750563	-81.62341
GC3Q23-2839BeachDr-PT	2839BeachDr-PT	495	8/8/2023	7:3 Fluor

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Hfpo Dimer Acid	HFPO-DA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoroheptanoic Acid	PFHpA	0.0053	5.3	Y			LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFOA	PFOA	0.24	240	Y			LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorobutanoic Acid	PFBA	0.0071	7.1	Y			LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.006	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.006	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.006	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.007	7	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0350	35	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Hfpo Dimer Acid	HFPO-DA	0.01	5.6	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.00	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorobutanoic Acid	PFBA	0.0071	7.1	Y			LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoroheptanoic Acid	PFHpA	0.005	5.3	Y			LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorohexanoic Acid	PFHxA	0.0052	5.2	Y			LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0030	3	Y			LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	Perfluoroundecanoic Acid	PFUnA	0	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFECA B	PFECA B	0.0	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFOA	PFOA	0.2400	240	Y			LIQUID	FS	Drinking Water	39.45879	-81.582
GC3Q23-283SchwendemanRd-PT	283SchwendemanRd-PT	859	8/11/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.45879	-81.582
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	Y		J	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluoroheptanoic Acid	PFHpA	0.021	21	Y		J	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluorohexanoic Acid	PFHxA	0.019	19	Y		J	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	DONA	DONA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	PFOS	PFOS	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	PFOA	PFOA	0.65	650	Y			Liquid	FS	Drinking Water	39.18995	-81.7621
0822-28400RockRunRd	28400RockRunRd	363	8/10/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.18995	-81.7621
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	PFECA-A	PFECA-A	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	PFECA B	PFECA B	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0041	4.1	Y			LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	PFOA	PFOA	0.12	120	Y			LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorobutanoic Acid	PFBA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	PFECA-F	PFECA-F	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluoropentanoic Acid	PFPA	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.0044	4.4	Y			LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0082	8.2	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.49053457	-81.6425909
GC3Q23-2905CampHervidaRd-PT	2905CampHervidaRd-PT	682	8/15/2023	Perfluorooctane Sulfonamide	PFOSA

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	Perfluorohexanoic Acid	PFHxA	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-290MasonicParkLn-PT	290MasonicParkLn-PT	993	8/17/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48419	-81.4923
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	PFOA	PFOA	0.074	74	Y			LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorobutanoic Acid	PFBA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorohexanoic Acid	PFHxA	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0078	7.8	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0030	3	Y			LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-2911RainbowRd-PT	2911RainbowRd-PT	829	8/18/2023	DONA	DONA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.496038	-81.55237
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Hfpo Dimer Acid	HFPO-DA	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluoroheptanoic Acid	PFHpA	0.015	15	Y			LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	PFOA	PFOA	0.47	470	Y			LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorobutanoic Acid	PFBA	0.014	14	Y			LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluoropentanoic Acid	PFPA	0.0048	4.8	Y			LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorohexanoic Acid	PFHxA	0.013	13	Y			LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0074	7.4	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	Perfluorooctane Sulfonamide	PFOSA	0.0023	2.3	Y		J	LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.037	37	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.037	37	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29450SawyersRunRd-PT	29450SawyersRunRd-PT	105	8/3/2023	DONA	DONA	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.2581825	-81.73559
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluoroheptanoic Acid	PFHpA	0.012	12	Y			LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Hfpo Dimer Acid	HFPO-DA	0.011	11	Y			LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	PFOS	PFOS	0.0018	1.8	Y			LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	PFOA	PFOA	0.55	550	Y			LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorobutanoic Acid	PFBA	0.012	12	Y			LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluoropentanoic Acid	PFPA	0.0034	3.4	Y			LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorohexanoic Acid	PFHxA	0.014	14	Y			LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0072	7.2	N	U		LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3Q23-29510SawyersRunRd-PT	29510SawyersRunRd-PT	667	8/1/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y			LIQUID	FS	Drinking Water	39.260090487	-81.73349807
GC3

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
201711292BS	2BS		11/29/2017	PFOA	PFOA	0.014	14	Y			LIQUID	FS	Surface Water		
201711292CM	2CM		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711292CS	2CS		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711292DM	2DM		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711292DS	2DS		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711292EM	2EM		11/29/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711292EM	2EM		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711292ES	2ES		11/29/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711292ES	2ES		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711292ES-D	2ES		11/29/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	DUP	Surface Water		
201711292ES-D	2ES		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	DUP	Surface Water		
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluoroheptanoic Acid	PFHpA	0.014	14	Y			LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Hfpo Dimer Acid	HFPO-DA	0.013	13	Y			LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	PFOA	PFOA	0.54	540	Y			LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorobutanoic Acid	PFBA	0.034	34	Y			LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluoropentanoic Acid	PFPA	0.0075	7.5	Y			LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorohexanoic Acid	PFHxA	0.025	25	Y			LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0022	2.2	Y			LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0026	2.6	Y			LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
GC3Q23-2NewburyRd-PT	2NewburyRd-PT	644	8/2/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.21661092	-81.72563052
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluorohexanoic Acid	PFHxA	0.0055	5.5	Y			Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluoroheptanoic Acid	PFHpA	0.014	14	Y			Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	PFOS	PFOS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	PFOA	PFOA	0.15	150	Y			Liquid	FS	Drinking Water	39.1797	-81.7497
0923-2RiverBendLn	2RiverbendLn	1052	9/13/2023	Hfpo Dimer Acid	HFPO-DA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.1797	-81.7497
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluoroheptanoic Acid	PFHpA	0.042	42	Y			LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Hfpo Dimer Acid	HFPO-DA	0.022	22	Y			LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	PFOS	PFOS	0.0014	1.4	Y	I	J	LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	PFOA	PFOA	1.5	1500	Y			LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorobutanoic Acid	PFBA	0.017	17	Y			LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluoropentanoic Acid	PFPA	0.011	11	Y			LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorohexanoic Acid	PFHxA	0.030	30	Y			LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0040	4	Y			LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorobutane Sulfonic Acid	PFBS	0.013	13	Y			LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	Y			LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301HoldrenRd-PT	301HoldrenRd-PT	223	8/2/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.232475368	-81.7122134
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorohexanoic Acid	PFHxA	0.0046	4.6	Y			LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0020	2	Y			LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.024	24	Y			LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorobutanoic Acid	PFBA	0.018	18	Y			LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT	301WhisperingOaksLn-PT	896	8/25/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.25771	-81.4827
GC3Q23-301WhisperingOaks-PT

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.416	-81.7854
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0082	8.2	N	U		LIQUID	FS	Drinking Water	39.416	-81.7854
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.416	-81.7854
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.416	-81.7854
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.416	-81.7854
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.416	-81.7854
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0018	1.8	Y			LIQUID	FS	Drinking Water	39.416	-81.7854
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.041	41	N	U		LIQUID	FS	Drinking Water	39.416	-81.7854
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.041	41	N	U		LIQUID	FS	Drinking Water	39.416	-81.7854
GC3Q23-314WestRd-PT	314WestRd-PT	907	8/9/2023	DONA	DONA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.416	-81.7854
0619-316OllochHillRd	316OllochHillRd	890.1	6/12/2019	PFOA	PFOA	0.1700	170	Y			Liquid	FS	Drinking Water	39.50055	-81.543
GC4Q19-316OllochHill-Bed1	316OllochHillRd-Bed1	890.1	12/17/2019	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC1Q20-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	2/17/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC2Q20-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	6/11/2020	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q20-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	9/25/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC4Q20-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	12/2/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC1Q21-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	2/18/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC2Q21-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	6/7/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q21-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	8/9/2021	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC4Q21-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	11/3/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC1Q22-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	2/23/2022	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC2Q22-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	4/27/2022	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	8/12/2022	PFOA	PFOA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC4Q22-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	11/9/2022	PFOA	PFOA	0.002	2.1	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC1Q23-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	2/23/2023	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC2Q23-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	5/17/2023	PFOA	PFOA	0.00	3.3	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	8/15/2023	PFOA	PFOA	0.0026	2.6	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC4Q23-316OllochHillRd-Bed1	316OllochHillRd-Bed1	890.1	10/31/2023	PFOA	PFOA	0.002	1.9	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q20-316OllochHillRd-PT	316OllochHillRd-PT	890.1	9/25/2020	PFOA	PFOA	0.1600	160	Y			Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q21-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/9/2021	PFOA	PFOA	0.097	97	Y			Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluorohexanoic Acid	PFHxA	0.0058	5.8	Y			Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluorodecanoic Acid	PFDA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Hfpo Dimer Acid	HFPO-DA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	PFOA	PFOA	0.2200	220	Y			Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluoroheptanoic Acid	PFHpA	0.0100	10	Y			Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	PFOS	PFOS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q22-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.011	11	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFOA	PFOA	0.25	250	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.0064	6.4	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.006	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.006	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.01	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.01	14	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0	6.9	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0350	35	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0350	35	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.006	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0	1.4	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorobutanoic Acid	PFBA	0.01	5.5	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0110	11	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.0064	6.4	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorononanoic Acid	PFNA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorooctane Sulfonamide	PFOSA	0.00	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoropentanoic Acid	PFPA	0.003	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFECA-F	PFECA-F	0.003	2.8	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFOA	PFOA	0.250	250	Y			LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-316OllochHillRd-PT	316OllochHillRd-PT	890.1	8/15/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.50055	-81.543
GC3Q23-321WalkerLn-PT	321WalkerLn-PT	355	8/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2389336	-81.683403
GC3Q23-321WalkerLn-PT	321WalkerLn-PT	355	8/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2389336	-81.683403
GC3Q23-321WalkerLn-PT	321WalkerLn-PT	355	8/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.2389336	-81.683403
GC3Q23-321WalkerLn-PT	321WalkerLn-PT	355	8/24/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.2389336	-81.683403
GC3Q23-321WalkerLn-PT	321WalkerLn-PT	355	8/24/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.2389336	-81.683403
GC3Q23-321WalkerLn-PT	321WalkerLn-PT	355	8/24/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0079	7.9	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	DONA	DONA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	PFECA-A	PFECA-A	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorobutanoic Acid	PFBA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0022	2.2	Y			LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	PFECA-F	PFECA-F	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Hfpo Dimer Acid	HFPO-DA	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	PFOA	PFOA	0.11	110	Y			LIQUID	FS	Drinking Water	39.1787834	-81.725952
GC3Q23-323SchultzLn-PT	323SchultzLn-PT	171	8/24/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.1787834	-81.725952
0319-3415HickmanRd	3415HickmanRd	881	3/15/2019	PFOA	PFOA	0.020	20	Y			Liquid	FS	Drinking Water	39.449704	-81.70316
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorononanesulfonic Acid	PFNS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.041	41	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0066	6.6	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Hfpo Dimer Acid	HFPO-DA	0.0066	6.6	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	PFOA	PFOA	0.15	150	Y			LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	PFECA-F	PFECA-F	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0066	6.6	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	DONA	DONA	0.0066	6.6	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.041	41	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	PFECA-A	PFECA-A	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	PFOS	PFOS	0.0030	3	Y	I	J	LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.017	17	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorobutanoic Acid	PFBA	0.015	15	Y			LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y			LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0034	3.4	Y			LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	PFECA B	PFECA B	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.017	17	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluoropentanoic Acid	PFPA	0.0065	6.5	Y			LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0066	6.6	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorohexanoic Acid	PFHxA	0.010	10	Y			LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0083	8.3	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0066	6.6	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	Perfluorooctane Sulfonamide	PFOSA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-342SouthSt-PT	342SouthSt-PT	672	8/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0066	6.6	N	U		LIQUID	FS	Drinking Water	39.241832733	-81.58250427
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	PFOA	PFOA	0.0016	1.6	Y			LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluoroheptanoic Acid	PFHpA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-343BlessingRd-PT	343BlessingRd-PT	189	8/22/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	38.9036026	-81.94062
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0060	6	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	PFECA-A	PFECA-A	0.0030	3	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	PFECA B	PFECA B	0.0030	3	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0084	8.4	Y			Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		Liquid	FS	Drinking Water	39.44526713	-81.7229345
GC3Q23-3442BrownriggRd-PT	3442BrownriggRd-PT	772	8/15/2023	PFOS	PFOS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.44526713

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.378452	-81.66838
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0076	7.6	N	U		LIQUID	FS	Drinking Water	39.378452	-81.66838
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	Y			LIQUID	FS	Drinking Water	39.378452	-81.66838
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.378452	-81.66838
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.378452	-81.66838
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.378452	-81.66838
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.378452	-81.66838
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.378452	-81.66838
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.378452	-81.66838
GC3Q23-3495LaymanRd-PT	3495LaymanRd-PT	886	8/17/2023	DONA	DONA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.378452	-81.66838
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluoroheptanoic Acid	PFHpA	0.013	13	Y			LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluorohexanoic Acid	PFHxA	0.012	12	Y			LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0070	7	Y			LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	PFOA	PFOA	0.21	210	Y			LIQUID	FS	Drinking Water	39.35963	-81.5467
0923-370GravelBankRd	370GravelBankRd	1055	9/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.35963	-81.5467
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluorotridecanoic Acid	PFTriA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluorohexanoic Acid	PFHxA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluorononanoic Acid	PFNA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluoroheptanoic Acid	PFHpA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	PFOS	PFOS	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	DONA	DONA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Perfluorodecanoic Acid	PFDA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	PFOA	PFOA	0.010	10	Y			LIQUID	FS	Drinking Water	39.12687	-81.7402
1123-372ElectricAve	372ElectricAve	1061	11/3/2023	Hfpo Dimer Acid	HFPO-DA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.12687	-81.7402
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluoroheptanoic Acid	PFHpA	0.0031	3.1	Y			Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	PFOA	PFOA	0.14	140	Y			Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluorohexanoic Acid	PFHxA	0.0045	4.5	Y			Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y			Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
0622-38655FirehouseDr	38655FirehouseDr	1017	6/21/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11815	-81.7491
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.041	41	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Hfpo Dimer Acid	HFPO-DA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	PFOA	PFOA	0.13	130	Y			LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	PFECA-F	PFECA-F	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	DONA	DONA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.041	41	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	PFECA-A	PFECA-A	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorobutanoic Acid	PFBA	0.017	17	Y			LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	PFECA B	PFECA B	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluoropentanoic Acid	PFPA	0.0033	3.3	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorohexanoic Acid	PFHxA	0.0062	6.2	Y			LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0081	8.1	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-392SouthSt-PT	392SouthSt-PT	665	8/25/2023	Perfluorooctane Sulfonamide	PFOSA	0.0030	3	Y			LIQUID	FS	Drinking Water	39.241531372	-81.58326721
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0095	9.5	Y			LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.012	12	Y			LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	PFOS	PFOS	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	PFOA	PFOA	0.55	550	Y			LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluorobutanoic Acid	PFBA	0.016	16	Y			LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluoropentanoic Acid	PFPA	0.0051	5.1	Y			LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.010	10	Y			LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307
GC3Q23-3981TurkeyhenRd-PT	3981TurkeyhenRd-PT	837	8/15/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.467233	-81.59307

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-398CurryRd-PT	398CurryRd-PT	795	8/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47618918	-81.6348423
GC3Q23-398CurryRd-PT	398CurryRd-PT	795	8/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.47618918	-81.6348423
GC3Q23-398CurryRd-PT	398CurryRd-PT	795	8/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.47618918	-81.6348423
GC3Q23-398CurryRd-PT	398CurryRd-PT	795	8/11/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.47618918	-81.6348423
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	PFOA	PFOA	0.26	260	Y			LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0065	6.5	Y			LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0028	2.8	Y			LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
GC3Q23-39SchultzLn-PT	39SchultzLn-PT	999	8/23/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.17934	-81.7297
201711293AM	3AM		11/29/2017	Hfpo Dimer Acid	HFPO-DA	0.016	16	Y			LIQUID	FS	Surface Water		
201711293AM	3AM		11/29/2017	PFOA	PFOA	0.034	34	Y			LIQUID	FS	Surface Water		
201711293AS	3AS		11/29/2017	Hfpo Dimer Acid	HFPO-DA	0.017	17	Y			LIQUID	FS	Surface Water		
201711293AS	3AS		11/29/2017	PFOA	PFOA	0.036	36	Y			LIQUID	FS	Surface Water		
201711293BM	3BM		11/29/2017	PFOA	PFOA	0.0084	8.4	Y			LIQUID	FS	Surface Water		
201711293BS	3BS		11/29/2017	PFOA	PFOA	0.028	28	Y			LIQUID	FS	Surface Water		
201711293CM	3CM		11/29/2017	PFOA	PFOA	0.011	11	Y			LIQUID	FS	Surface Water		
201711293CS	3CS		11/29/2017	PFOA	PFOA	0.043	43	Y			LIQUID	FS	Surface Water		
201711293DM	3DM		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711293DS	3DS		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711293EM	3EM		11/29/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711293EM	3EM		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711293ES	3ES		11/29/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711293ES	3ES		11/29/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	PFOA	PFOA	0.085	85	Y			LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	PFECA-F	PFECA-F	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorobutanoic Acid	PFBA	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	PFECA-A	PFECA-A	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	DONA	DONA	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0080	8	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluoropentanoic Acid	PFPA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	PFECA B	PFECA B	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-406HarrisFerryRd-PT	406HarrisFerryRd-PT	797	8/23/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.180843	-81.7471
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluoroheptanoic Acid	PFHpA	0.0036	3.6	Y			LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	PFOA	PFOA	0.14	140	Y			LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorohexanoic Acid	PFHxA	0.0026	2.6	Y			LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.171905021	-81.8285666
GC3Q23-42230BrooksRd-PT	42230BrooksRd-PT	68	8/4/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	PFOS	PFOS	0.015	15	Y			LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	PFOA	PFOA	0.73	730	Y			LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorohexanoic Acid	PFHxA	0.0066	6.6	Y			LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0060	6	Y			LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-4385StRt144-PT	4385StRt144-PT	399	8/8/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.249319451	-81.8125165
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Hfpo Dimer Acid	HFPO-DA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	PFOA	PFOA	0.51	510	Y			LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorobutanoic Acid	PFBA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluoroheptanoic Acid	PFHpA	0.015	15	Y			LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorohexanoic Acid	PFHxA	0.0063	6.3	Y			LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-438WaybackRiverRd-PT	438WaybackRiverRd-PT	652	8/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19424057	-81.73061371
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Hfpo Dimer Acid	HFPO-DA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	PFOA	PFOA	0.13	130	Y			LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	DONA	DONA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	PFOS	PFOS	0.0025	2.5	Y			LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorobutanoic Acid	PFBA	0.020	20	Y			LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.026	26	Y			LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	Y			LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluoropentanoic Acid	PFPA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorohexanoic Acid	PFHxA	0.0044	4.4	Y			LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0076	7.6	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	Y			LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
GC3Q23-44SniderRd-PT	44SniderHillRd-PT	883	8/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.259766	-81.48336
0818-4595MuskingumRiverRd	4595MuskingumRiverRd	851	8/14/2018	PFOA	PFOA	0.060	60	Y			Liquid	FS	Drinking Water	39.5011	-81.46672
1018-4595MuskingumRiverRd	4595MuskingumRiverRd	851	10/19/2018	PFOA	PFOA	0.050	50	Y			Liquid	FS	Drinking Water	39.5011	-81.46672
0219-4595MuskingumRiverRd	4595MuskingumRiverRd	851	2/11/2019	PFOA	PFOA	0.0450	45	Y			Liquid	FS	Drinking Water	39.5011	-81.46672
0519-4595MuskingumRiverRd	4595MuskingumRiverRd	851	5/17/2019	PFOA	PFOA	0.048	48	Y			Liquid	FS	Drinking Water	39.5011	-81.46672
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.0339175	-81.909201
GC3Q23-47360HorseCaveRd-PT	47360HorseCaveRd-PT	214	8/4/2023	Perfluoroheptanoic

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	PFOA	PFOA	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluorobutanoic Acid	PFBA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluoropentanoic Acid	PFPA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0071	7.1	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
GC3Q23-494MoodyRidgeRd-PT	494MoodyRidgeRd-PT	501	7/28/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.31769	-81.6788
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	PFOS	PFOS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	PFOA	PFOA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
0923-498MoodyRidgeRd	498MoodyRidgeRd	499	9/22/2023	DONA	DONA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.31929	-81.678
201711284AM	4AM		11/28/2017	Hfpo Dimer Acid	HFPO-DA	0.022	22	Y			LIQUID	FS	Surface Water		
201711284AM	4AM		11/28/2017	PFOA	PFOA	0.049	49	Y			LIQUID	FS	Surface Water		
201711284AS	4AS		11/28/2017	Hfpo Dimer Acid	HFPO-DA	0.023	23	Y			LIQUID	FS	Surface Water		
201711284AS	4AS		11/28/2017	PFOA	PFOA	0.049	49	Y			LIQUID	FS	Surface Water		
201711284BM	4BM		11/28/2017	PFOA	PFOA	0.015	15	Y			LIQUID	FS	Surface Water		
201711284BS	4BS		11/28/2017	PFOA	PFOA	0.015	15	Y			LIQUID	FS	Surface Water		
201711284CM	4CM		11/28/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711284CM	4CM		11/28/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711284CS	4CS		11/28/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711284CS	4CS		11/28/2017	PFOA	PFOA	0.0073	7.3	Y			LIQUID	FS	Surface Water		
201711284DM	4DM		11/28/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711284DS	4DS		11/28/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711284EM	4EM		11/28/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711284EM	4EM		11/28/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711284EM-D	4EM		11/28/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	DUP	Surface Water		
201711284EM-D	4EM		11/28/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	DUP	Surface Water		
201711284ES	4ES		11/28/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711284ES	4ES		11/28/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U,*-	UJ	Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	PFOA	PFOA	0.031	31	Y			Liquid	FS	Drinking Water	39.48754	-81.479
0623-510FerncliffDr	510FerncliffDr	1042	6/6/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48754	-81.479
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Hfpo Dimer Acid	HFPO-DA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluorohexanoic Acid	PFHxA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	PFOS	PFOS	0.0020	2	Y			Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	PFOA	PFOA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
0522-5125OakHillRd	5125OakHillRd	1010	5/25/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.45137	-81.7399
1118-521PlumRunRd	521PlumRunRd	865	11/12/2018	PFOA	PFOA	0.087	87	Y			Liquid	FS	Drinking Water	39.48578	-81.62688
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	PFOA	PFOA	0.030	30	Y			Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
0623-530FerncliffDr	530FerncliffDr	1041	6/1/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.48733	-81.4783
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	PFECA-A	PFECA-A	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	PFECA B	PFECA B	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	PFOA	PFOA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorobutanoic Acid	PFBA	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	PFECA-F	PFECA-F	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.011	11	Y			LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluoropentanoic Acid	PFPA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorohexanoic Acid	PFHxA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.017	17	Y			LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0080	8	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.022	22	Y			LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-5310MuskingumRiver-PT	5310MuskingumRiver-PT	930	8/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.51058	-81.4727
GC3Q23-

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-540MasonicParkLn-PT	540MasonicParkLn-PT	765	8/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.48472753	-81.4971155
GC3Q23-540MasonicParkLn-PT	540MasonicParkLn-PT	765	8/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0031	3.1	Y			LIQUID	FS	Drinking Water	39.48472753	-81.4971155
GC3Q23-540MasonicParkLn-PT	540MasonicParkLn-PT	765	8/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48472753	-81.4971155
GC3Q23-540MasonicParkLn-PT	540MasonicParkLn-PT	765	8/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48472753	-81.4971155
GC3Q23-540MasonicParkLn-PT	540MasonicParkLn-PT	765	8/17/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48472753	-81.4971155
GC3Q23-540MasonicParkLn-PT	540MasonicParkLn-PT	765	8/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.48472753	-81.4971155
GC3Q23-540MasonicParkLn-PT	540MasonicParkLn-PT	765	8/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.48472753	-81.4971155
GC3Q23-540MasonicParkLn-PT	540MasonicParkLn-PT	765	8/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.48472753	-81.4971155
GC3Q23-540MasonicParkLn-PT	540MasonicParkLn-PT	765	8/17/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.48472753	-81.4971155
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	PFOA	PFOA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0422-54145FellowshipDr	54145FellowshipDr	1001	4/26/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0839	-81.7645
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0822-54149FellowshipDr	54149FellowshipDr	1030	8/23/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.08403	-81.7644
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	PFOA	PFOA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
0522-54157FellowshipDr	54157FellowshipDr	1008	5/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.08457	-81.7631
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
1122-54173FellowshipDr	54173FellowshipDr	1036	11/8/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.085	-81.7619
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Hfpo Dimer Acid	HFPO-DA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluoroheptanoic Acid	PFHpA	0.0069	6.9	Y			LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	PFOS	PFOS	0.0030	3	Y	I	J	LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	PFOA	PFOA	0.28	280	Y			LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorobutanoic Acid	PFBA	0.0081	8.1	Y			LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluoropentanoic Acid	PFPA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorohexanoic Acid	PFHxA	0.0080	8	Y			LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0075	7.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorobutane Sulfonic Acid	PFBS	0.049	49	Y			LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.037	37	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.037	37	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
GC3Q23-5460StRt555-PT	5460StRt555-PT	885	8/31/2023	DONA	DONA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.31827	-81.75223
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	PFOS	PFOS	0.0045	4.5	Y			LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	PFOA	PFOA	0.0055	5.5	Y			LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0030	3	Y			LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
0523-55458StRt124	55458StRt124	141	5/5/2023	DONA	DONA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.1228342	-81.746034
1117-554CurryRd	554CurryRd	794	11/8/2017	PFOA	PFOA	0.3	280	Y			Liquid	FS	Drinking Water	39.47557415	-81.636912
GC2Q18-554CurryRd-Bed1	554CurryRd-Bed1	794	5/8/2018	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluoroheptanoic Acid	PFHpA	0.002	2	Y			Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluoroheptanoic Acid	PFHpA	0.002	2	Y			Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	PFOA	PFOA	0.061	61	Y			Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Hfpo Dimer Acid	HFPO-DA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluorodecanoic Acid	PFDA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	PFOS	PFOS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluorotetradecanoic Acid	PFTeA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluoroundecanoic Acid	PFUnA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluorohexanoic Acid	PFHxA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluorododecanoic Acid	PFDoA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT	554CurryRd-PT	794	8/24/2022	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluorotridecanoic Acid	PFTriA	0.0	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluorohexanoic Acid	PFHxA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q22-554CurryRd-PT-D	554CurryRd-PT	794	8/24/2022	PFOA	PFOA	0.06	64	Y			Liquid	DUP	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.0020	2	Y			LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.006	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.006	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.006	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.0140	14	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0140	14	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.007	6.9	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0350	35	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.006	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0350	35	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorodecanoic Acid	PFDA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorooctane Sulfonamide	PFOSA	0.002	2	Y			LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluorotridecanoic Acid	PFTriA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	PFOA	PFOA	0.0620	62	Y			LIQUID	FS	Drinking Water	39.47557415	-81.636912
GC3Q23-554CurryRd-PT	554CurryRd-PT	794	8/11/2023	PFOS	PFOS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47557415	-81.636912
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluoroheptanoic Acid	PFHpA	0.031	31	Y			LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Hfpo Dimer Acid	HFPO-DA	0.018	18	Y			LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	PFOS	PFOS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	PFOA	PFOA	0.93	930	Y			LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluorohexanoic Acid	PFHxA	0.014	14	Y			LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
0923-555GravelBankRd	555GravelBankRd	1056	9/22/2023	DONA	DONA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.3664	-81.5481
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluoroheptanoic Acid	PFHpA	0.0028	2.8	Y			LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	PFOA	PFOA	0.15	150	Y			LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
1122-5564DeepHollowRd	5564DeepHollowRd	1026	11/29/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.2666	-81.8433
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	Perfluorononanesulfonic Acid	PFNS	0.

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	Perfluorohexanoic Acid	PFHxA	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0079	7.9	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0063	6.3	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
GC3Q23-5670HarrisHwy-PT	5670HarrisHwy-PT	32	8/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.18769	-81.662
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	PFOS	PFOS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	DONA	DONA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	PFOA	PFOA	0.013	13	Y	H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-570SouthSchultz	570SouthSchultzRd	1048	8/21/2023	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.14979	-81.7234
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0061	6.1	Y			Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	PFOA	PFOA	0.37	370	Y			Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	PFOS	PFOS	0.0032	3.2	Y			Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0027	2.7	Y			Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.0088	8.8	Y			Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.0086	8.6	Y			Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
0823-572SouthSchultz	572SouthSchultzRd	1047	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.15908	-81.728
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	PFOA	PFOA	0.41	410	Y			LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorobutanoic Acid	PFBA	0.0057	5.7	Y			LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0073	7.3	Y			LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0055	5.5	Y			LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-5843NewEnglandRidg-PT	5843NewEnglandRidge-PT	939	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.19	-81.7253
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.037	37	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Hfpo Dimer Acid	HFPO-DA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	PFOA	PFOA	0.092	92	Y			LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0076	7.6	Y			LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0044	4.4	Y			LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorobutanoic Acid	PFBA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.037	37	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	DONA	DONA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0043	4.3	Y			LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0075	7.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorohexanoic Acid	PFHxA	0.0060	6	Y			LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluoropentanoic Acid	PFPA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
GC3Q23-59RailroadPathRd-PT	59RailroadPathRd-PT	738	8/25/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.37286	-81.49281
201711285AM	5AM		11/28/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711285AM	5AM		11/28/2017	PFOA	PFOA	0.02	20	Y			LIQUID	FS	Surface Water		
201711285AS	5AS		11/28/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		LIQUID	FS	Surface Water		
201711285AS	5AS		11/28/2017	PFOA	PFOA	0.027	27	Y			LIQUID	FS	Surface Water		
201711285BM	5BM		11/28/2017	PFOA	PFOA	0.005	5	N	U		LIQUID	FS	Surface Water		
201711285BS	5BS		11/28/2017	PFOA	PFOA	0.0055	5.5	Y			LIQUID	FS	Surface Water		
201711285CM	5CM		11/28/2017

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-610FerncliffDr-PT	610FerncliffDr-PT	875	9/1/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.486892	-81.4768
GC3Q23-610FerncliffDr-PT	610FerncliffDr-PT	875	9/1/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.486892	-81.4768
GC3Q23-610FerncliffDr-PT	610FerncliffDr-PT	875	9/1/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.037	37	N	U		LIQUID	FS	Drinking Water	39.486892	-81.4768
GC3Q23-610FerncliffDr-PT	610FerncliffDr-PT	875	9/1/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.037	37	N	U		LIQUID	FS	Drinking Water	39.486892	-81.4768
GC3Q23-610FerncliffDr-PT	610FerncliffDr-PT	875	9/1/2023	DONA	DONA	0.0059	5.9	N	U		LIQUID	FS	Drinking Water	39.486892	-81.4768
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorononanesulfonic Acid	PFNS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.043	43	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	PFECA-F	PFECA-F	0.0035	3.5	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0035	3.5	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Hfpo Dimer Acid	HFPO-DA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	PFOA	PFOA	0.35	350	Y			LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	DONA	DONA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.043	43	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	PFECA-A	PFECA-A	0.0035	3.5	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	PFOS	PFOS	0.0043	4.3	Y			LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.017	17	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorobutanoic Acid	PFBA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0067	6.7	Y			LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.017	17	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	PFECA B	PFECA B	0.0035	3.5	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluoropentanoic Acid	PFPA	0.0035	3.5	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorohexanoic Acid	PFHxA	0.0040	4	Y			LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0087	8.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
GC3Q23-6497NewEnglandRidg-PT	6497NewEnglandRidgeRd-PT	309	8/25/2023	Perfluorooctane Sulfonamide	PFOSA	0.0017	1.7	N	U		LIQUID	FS	Drinking Water	39.184448242	-81.72975922
1222-651GrandSt	651GrandSt	1037	12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0052	5.2	Y			Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluoroheptanoic Acid	PFHpA	0.013	13	Y			Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	PFOA	PFOA	0.46	460	Y			Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluorohexanoic Acid	PFHxA	0.0052	5.2	Y			Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U,F2,F1	UJ	Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U,F2,F1	UJ	Liquid	FS	Drinking Water	39.1907	-81.7524
1222-651GrandSt	651GrandSt	1037	12/12/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.1907	-81.7524
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	PFOA	PFOA	0.039	39	Y			Liquid	FS	Drinking Water	39.11764	-81.7481
0522-65876StRt124	65876StRt124	1012	5/26/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.11764	-81.7481
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluorodecanoic Acid	PFDA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Hfpo Dimer Acid	HFPO-DA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluorononanoic Acid	PFNA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluoroheptanoic Acid	PFHpA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluorohexanoic Acid	PFHxA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0031	3.1	Y			Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluorotridecanoic Acid	PFTriA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	DONA	DONA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	PFOS	PFOS	0.0023	2.3	Y			Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	PFOA	PFOA	0.013	13	Y			Liquid	FS	Drinking Water	39.11834	-81.748
1023-65926StRt124	65926StRt124	1059	10/26/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Drinking Water	39.11834	-81.748
0822-65995StRt124	65995StRt124	1031	8/23/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	PFOA	PFOA	0.026	26	Y			LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0822-65995StRt124	65995StRt124	1031	8/23/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.11927	-81.7472
0423-66077StRt124	66077StRt124	1039	4/5/2023	Hfpo Dimer Acid	HFPO-DA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	PFOS	PFOS	0.0035	3.5	Y			LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	PFOA	PFOA	0.0061	6.1	Y			LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluorohexanoic Acid	PFHxA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0030	3	Y			LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0423-66077StRt124	66077StRt124	1039	4/5/2023	DONA	DONA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.12035	-81.7469
0822-66244StRt124	66244StRt124	1032	8/23/2022	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.12286	-81.7476
0822-66244StRt124	66244StRt124	1032	8/23/2022	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.12286	-81.7476
0822-66244StRt124	66244StRt124	1032	8/23/2022	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.12286	-81.7476
0822-66244StRt124	66244StRt124	1032	8/23/2022	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.12286	-81.7476
0822-66244StRt124	66244StRt124	1032	8/23/2022	N

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
0523-705WallaceRd	705WallaceRd	1040	5/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31859	-81.7418
0523-705WallaceRd	705WallaceRd	1040	5/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31859	-81.7418
0523-705WallaceRd	705WallaceRd	1040	5/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31859	-81.7418
0523-705WallaceRd	705WallaceRd	1040	5/25/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31859	-81.7418
0523-705WallaceRd	705WallaceRd	1040	5/25/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31859	-81.7418
0523-705WallaceRd	705WallaceRd	1040	5/25/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31859	-81.7418
0523-705WallaceRd	705WallaceRd	1040	5/25/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31859	-81.7418
0523-705WallaceRd	705WallaceRd	1040	5/25/2023	PFOA	PFOA	0.39	390	Y			Liquid	FS	Drinking Water	39.31859	-81.7418
0523-705WallaceRd	705WallaceRd	1040	5/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.31859	-81.7418
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	Y			Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Hfpo Dimer Acid	HFPO-DA	0.017	17	Y			Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	Y			Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	PFOS	PFOS	0.0041	4.1	Y			Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	PFOA	PFOA	0.046	46	Y			Liquid	FS	Drinking Water	39.41337	-81.7133
0823-707McDonaldRd	707McDonaldRd	1046	8/7/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.41337	-81.7133
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	Y			LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0077	7.7	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorohexanoic Acid	PFHxA	0.0032	3.2	Y			LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0059	5.9	Y			LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorobutanoic Acid	PFBA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	PFOS	PFOS	0.0019	1.9	Y			LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	DONA	DONA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	PFOA	PFOA	0.25	250	Y			LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Hfpo Dimer Acid	HFPO-DA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-7098NewEnglanRidg-PT	7098NewEnglandRidgeRd-PT	318	8/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.1767845	-81.734848
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Hfpo Dimer Acid	HFPO-DA	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	PFECA-A	PFECA-A	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	PFECA B	PFECA B	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluoroheptanoic Acid	PFHpA	0.0031	3.1	Y			LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	PFOS	PFOS	0.0019	1.9	Y	I	J	LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	PFOA	PFOA	0.097	97	Y			LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorobutanoic Acid	PFBA	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	PFECA-F	PFECA-F	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluoropentanoic Acid	PFPA	0.0032	3.2	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorohexanoic Acid	PFHxA	0.0032	3.2	Y			LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0079	7.9	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-715RobertsRd-PT	715RobertsRd-PT	777	8/9/2023	DONA	DONA	0.0064	6.4	N	U		LIQUID	FS	Drinking Water	39.43010174	-81.814645
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Perfluoroheptanoic Acid	PFHpA	0.0030	3	Y			LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Hfpo Dimer Acid	HFPO-DA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.3025769	-81.8368125
GC3Q23-7217FrostRd-PT	7217FrostRd-PT	763	7/28/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	PFOS	PFOS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.013	13	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluorobutanoic Acid	PFBA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	Y			LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0059	5.9	Y			LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluorononanoic Acid	PFNA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.013	13	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0042	4.2	Y			LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0067	6.7	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0024	2.4	Y			LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	Perfluorooctane Sulfonamide	PFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7295NewEnglanRidg-PT	7295NewEnglandRidgeRd-PT	903	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.175	-81.738
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	PFOA	PFOA	0.061	61	Y			LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-7310NewEnglandRidg-PT	7310NewEnglandRidgeRd-PT	745	8/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.176682	-81.73782
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorononanesulfonic Acid	PFNS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0078	7.8	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	DONA	DONA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.039	39	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorobutanoic Acid	PFBA	0.0089	8.9	Y			LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	Y			LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluorododecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0062	6.2	N	U		LIQUID	FS	Drinking Water	39.295486	-81.5054
GC3Q23-739NewbanksRd-PT	739NewbanksRd-PT	707	8/23/2023	PFOA	PFOA	0.076	76	Y			LIQUID	FS	Drinking Water	39.295486	-81.5054
0918-747SchwendemanRd	747SchwendemanRd	857	9/18/2018	PFOA	PFOA	0.50	500	Y	F1	J	Liquid	FS	Drinking Water	39.464111	-81.57759
GC3Q19-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	9/12/2019	PFOA	PFOA	0.0100	10	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC4Q19-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	11/7/2019	PFOA	PFOA	0.0	10	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC1Q20-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	1/29/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC2Q20-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	6/10/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC3Q20-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	9/28/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC4Q20-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	11/19/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC1Q21-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	2/10/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC2Q21-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	6/3/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC3Q21-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	8/12/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC4Q21-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	10/29/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC1Q22-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	1/31/2022	PFOA	PFOA	0.0100	10	N	U,H		Liquid	FS	Drinking Water	39.464111	-81.57759
GC2Q22-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	4/21/2022	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC3Q22-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	8/24/2022	PFOA	PFOA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.464111	-81.57759
GC4Q22-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	11/3/2022	PFOA	PFOA	0.0	1.8	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC1Q23-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	2/2/2023	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC2Q23-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	5/25/2023	PFOA	PFOA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	8/15/2023	PFOA	PFOA	0.0019	1.9	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC4Q23-747SchwendemanRd-Bed1	747SchwendemanRd-Bed1	857	10/27/2023	PFOA	PFOA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q19-747SchwendemanRd-PT	747SchwendemanRd-PT	857	9/12/2019	PFOA	PFOA	0.4600	460	Y			LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q20-747SchwendemanRd-PT	747SchwendemanRd-PT	857	9/28/2020	PFOA	PFOA	0.4300	430	Y			Liquid	FS	Drinking Water	39.464111	-81.57759
GC3Q21-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/12/2021	PFOA	PFOA	0.3600	360	Y			Liquid	FS	Drinking Water	39.464111	-81.57759
GC3Q22-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/24/2022	Hfpo Dimer Acid	HFPO-DA	0	2.3	Y			Liquid	FS	Drinking Water	39.464111	-81.57759
GC3Q22-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/24/2022	Perfluorohexane Sulfonic

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorooctane Sulfonamide	PFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.040	40	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	DONA	DONA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0	6.5	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.007	6.5	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.007	6.5	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.016	16	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0160	16	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0081	8.1	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.0400	40	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.01	6.5	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.0	40	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	DONA	DONA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Hfpo Dimer Acid	HFPO-DA	0.0065	6.5	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.00	3.2	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorobutanoic Acid	PFBA	0.015	15	Y			LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluoroheptanoic Acid	PFHpA	0.010	9.5	Y			LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.9	Y			LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorohexanoic Acid	PFHxA	0.0085	8.5	Y			LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorononanesulfonic Acid	PFNS	0	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorononanoic Acid	PFNA	0	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorooctane Sulfonamide	PFOSA	0.0	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluoropentanoic Acid	PFPA	0.004	4.1	Y			LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	PFECA B	PFECA B	0.003	3.2	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	PFECA-A	PFECA-A	0.003	3.2	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	PFECA-F	PFECA-F	0.003	3.2	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	PFOA	PFOA	0.4500	450	Y			LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-747SchwendemanRd-PT	747SchwendemanRd-PT	857	8/15/2023	PFOS	PFOS	0.0016	1.6	N	U		LIQUID	FS	Drinking Water	39.464111	-81.57759
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0068	6.8	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.034	34	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorobutanoic Acid	PFBA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	PFOA	PFOA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
GC3Q23-7497HarrisHwy-PT	7497HarrisHwy-PT	371	8/23/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.1674995	-81.678787
0422-7520StRt676	7520StRt676	1002	4/26/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	PFOA	PFOA	0.0034	3.4	Y			Liquid	FS	Drinking Water	39.46039	-81.717
0422-7520StRt676	7520StRt676	1002	4/26/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.46039	-81.717
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	PFOA	PFOA	0.25	250	Y			LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Hfpo Dimer Acid	HFPO-DA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluoroheptanoic Acid	PFHpA	0.0044	4.4	Y			LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0053	5.3	Y			LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorobutanoic Acid	PFBA	0.022	22	Y			LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	PFOS	PFOS	0.0057	5.7	Y			LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	DONA	DONA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0068	6.8	Y			LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT	706	8/28/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.301811	-81.5068
GC3Q23-75HaysDr-PT	75HaysDr-PT

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	Perfluoroundecanoic Acid	PFUnA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	Perfluorohexanoic Acid	PFHxA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	Perfluorododecanoic Acid	PFDoA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0	1.6	N	U		Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	Perfluorotridecanoic Acid	PFTriA	0.0	1.6	N	U		Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q22-7601StRt144-PT	7601StRt144-PT	722	8/4/2022	Perfluoroheptanoic Acid	PFHpA	0.0043	4.3	Y			Liquid	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.0050	5	Y			LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorononanoic Acid	PFNA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFECA B	PFECA B	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.013	13	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.013	13	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFECA-A	PFECA-A	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Hfpo Dimer Acid	HFPO-DA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorodecanoic Acid	PFDA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFOS	PFOS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFOA	PFOA	0.13	130	Y			LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorobutanoic Acid	PFBA	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFECA-F	PFECA-F	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0054	5.4	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoropentanoic Acid	PFPA	0.0027	2.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorohexanoic Acid	PFHxA	0.0014	1.4	Y			LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0067	6.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorotridecanoic Acid	PFTriA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0013	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.005	5	Y			LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.001	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorohexanoic Acid	PFHxA	0.001	1.4	Y			LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.001	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorononanoic Acid	PFNA	0.001	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorooctane Sulfonamide	PFOSA	0.00	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoropentanoic Acid	PFPA	0.003	2.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.001	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluorotridecanoic Acid	PFTriA	0.001	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFECA B	PFECA B	0.0	2.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFECA-A	PFECA-A	0.0	2.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFECA-F	PFECA-F	0.00	2.7	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFOA	PFOA	0.13	130	Y			LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7601StRt144-PT	7601StRt144-PT	722	8/8/2023	PFOS	PFOS	0.001	1.3	N	U		LIQUID	FS	Drinking Water	39.29638371	-81.8349643
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U,F1		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluoropentanoic Acid	PFPA	0.049	49	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.14	140	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorohexanoic Acid	PFHxA	0.19	190	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0069	6.9	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	1.0	1000	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorooctane Sulfonamide	PFOSA	0.0021	2.1	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	DONA	DONA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	PFOS	PFOS	2.7	2700	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorobutanoic Acid	PFBA	0.039	39	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.16	160	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluoroheptanoic Acid	PFHpA	0.10	100	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.036	36	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorononanoic Acid	PFNA	0.016	16	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Hfpo Dimer Acid	HFPO-DA	0.0055	5.5	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	PFOA	PFOA	0.13	130	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.018	18	Y			LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
GC3Q23-7611UnionCampgroun-PT	7611UnionCampgroun-PT	435	8/22/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	38.9603462	-81.97567
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U,F1	UJ	LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U,F1	UJ	LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	PFOA	PFOA	0.0034	3.4	Y			LIQUID	FS	Drinking Water	39.52495	-81.5118
0223-7625MuskingumRiver	7625MuskingumRiver	1038	2/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.52495	-81.5118
1117-805CurryRd	805CurryRd	793	11/8/2017	PFOA	PFOA	0.10	95	Y			Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC2Q18-805CurryRd-Bed1	805CurryRd-Bed1	793	6/18/2018	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC3Q18-805CurryRd-Bed1	805CurryRd-Bed1	793	9/17/2018	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC4Q18-805CurryRd-Bed1	805CurryRd-Bed1	793	11/29/2018	PFOA	PFOA	0.01	10	N	<		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC1Q19-805CurryRd-Bed1	805CurryRd-Bed1	793	3/11/2019	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC2Q19-805CurryRd-Bed1	805CurryRd-Bed1	793	6/3/2019	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC3Q19-805CurryRd-Bed1	805CurryRd-Bed1	793	9/3/2019	PFOA	PFOA	0.010	10	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC4Q19-805CurryRd-Bed1	805CurryRd-Bed1	793	11/18/2019	PFOA	PFOA	0.01	10	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC1Q20-805CurryRd-Bed1	805CurryRd-Bed1	793	2/19/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC2Q20-805CurryRd-Bed1	805CurryRd-Bed1	793	6/16/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC4Q20-805CurryRd-Bed1	805CurryRd-Bed1	793	11/30/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC1Q21-805CurryRd-Bed1	805CurryRd-Bed1	793	2/23/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC2Q21-805CurryRd-Bed1	805CurryRd-Bed1	793	6/9/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	39.47611322	-81.6424384
GC3Q21-805CurryRd-Bed1	805CurryRd-Bed1	793	8/18/2021	PFOA	PFOA	0.010	10

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	Perfluoroundecanoic Acid	PFUnA	0.00	1.6	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.6	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	Perfluorododecanoic Acid	PFDoA	0.002	1.6	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.6	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.6	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.6	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.6	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	Perfluorotridecanoic Acid	PFTriA	0.002	1.6	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	Hfpo Dimer Acid	HFPO-DA	0.002	2.2	Y			LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	Perfluorohexanoic Acid	PFHxA	0.0066	6.6	Y			LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q22-805CurryRd-PT	805CurryRd-PT	793	8/25/2022	Perfluoroheptanoic Acid	PFHpA	0.0062	6.2	Y			LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Hfpo Dimer Acid	HFPO-DA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoroheptanoic Acid	PFHpA	0.0031	3.1	Y			LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFOA	PFOA	0.15	150	Y			LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorobutanoic Acid	PFBA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0057	5.7	N	U	UJ	LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorohexanoic Acid	PFHxA	0.0020	2	Y			LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0071	7.1	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	DONA	DONA	0.0057	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.006	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.006	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.006	5.7	N	U	UJ	LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.007	7.1	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.006	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.04	35	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.01	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	DONA	DONA	0.0	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Hfpo Dimer Acid	HFPO-DA	0.01	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorobutanoic Acid	PFBA	0.0	5.7	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorodecane Sulfonic Acid	PFDS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorodecanoic Acid	PFDA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorododecanoic Acid	PFDoA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoroheptanoic Acid	PFHpA	0.0	3.1	Y			LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorohexanoic Acid	PFHxA	0.002	2	Y			LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorononanesulfonic Acid	PFNS	0.00	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorononanoic Acid	PFNA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorooctane Sulfonamide	PFOSA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoropentanoic Acid	PFPA	0.003	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorotetradecanoic Acid	PFTeA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluorotridecanoic Acid	PFTriA	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFECA B	PFECA B	0.003	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFECA-A	PFECA-A	0.003	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFECA-F	PFECA-F	0.003	2.8	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFOA	PFOA	0.150	150	Y			LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-805CurryRd-PT	805CurryRd-PT	793	9/1/2023	PFOS	PFOS	0.001	1.4	N	U		LIQUID	FS	Drinking Water	39.47611322	-81.6424384
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluoroheptanoic Acid	PFHpA	0.0025	2.5	Y			LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	PFECA-A	PFECA-A	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	PFOA	PFOA	0.081	81	Y			LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorobutanoic Acid	PFBA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	PFECA-F	PFECA-F	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	Y			LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0077	7.7	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
GC3Q23-8225MuskingumRiver-PT	8225MuskingumRiver-PT	913	8/17/2023	DONA	DONA	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.52756	-81.5204
0422-857SouthlandCemetery	857SouthlandCemeteryRd	1000	4/26/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-91SouthSt-PT	91SouthSt-PT	670	8/29/2023	Perfluorohexanoic Acid	PFHxA	0.0039	3.9	Y			LIQUID	FS	Drinking Water	39.241924286	-81.57805634
GC3Q23-91SouthSt-PT	91SouthSt-PT	670	8/29/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0061	6.1	N	U		LIQUID	FS	Drinking Water	39.241924286	-81.57805634
GC3Q23-91SouthSt-PT	91SouthSt-PT	670	8/29/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.241924286	-81.57805634
GC3Q23-91SouthSt-PT	91SouthSt-PT	670	8/29/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.241924286	-81.57805634
GC3Q23-91SouthSt-PT	91SouthSt-PT	670	8/29/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.241924286	-81.57805634
GC3Q23-91SouthSt-PT	91SouthSt-PT	670	8/29/2023	Perfluoropentanoic Acid	PFPA	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.241924286	-81.57805634
GC3Q23-91SouthSt-PT	91SouthSt-PT	670	8/29/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.241924286	-81.57805634
GC3Q23-91SouthSt-PT	91SouthSt-PT	670	8/29/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.241924286	-81.57805634
GC3Q23-91SouthSt-PT	91SouthSt-PT	670	8/29/2023	PFECA B	PFECA B	0.0031	3.1	N	U		LIQUID	FS	Drinking Water	39.241924286	-81.57805634
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluoroheptanoic Acid	PFHpA	0.026	26	Y			LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorononanoic Acid	PFNA	0.0041	4.1	Y			LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	PFECA B	PFECA B	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	PFECA-A	PFECA-A	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Hfpo Dimer Acid	HFPO-DA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	PFOA	PFOA	0.23	230	Y			LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorobutanoic Acid	PFBA	0.0071	7.1	Y			LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	PFECA-F	PFECA-F	0.0029	2.9	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluoropentanoic Acid	PFPA	0.0086	8.6	Y			LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorohexanoic Acid	PFHxA	0.015	15	Y			LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0072	7.2	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0053	5.3	Y			LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.036	36	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-940WatertownRd-PT	940WatertownRd-PT	861	8/14/2023	DONA	DONA	0.0058	5.8	N	U		LIQUID	FS	Drinking Water	39.472561	-81.61998
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	PFECA-A	PFECA-A	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Hfpo Dimer Acid	HFPO-DA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorodecanoic Acid	PFDA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.014	14	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	PFECA B	PFECA B	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluoroheptanoic Acid	PFHpA	0.0070	7	Y			LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorononanoic Acid	PFNA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorononanesulfonic Acid	PFNS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	PFOS	PFOS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	PFOA	PFOA	0.44	440	Y			LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorobutanoic Acid	PFBA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	PFECA-F	PFECA-F	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorododecanoic Acid	PFDoA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluoropentanoic Acid	PFPA	0.0028	2.8	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorohexanoic Acid	PFHxA	0.0033	3.3	Y			LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0070	7	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorotridecanoic Acid	PFTriA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	Perfluorooctane Sulfonamide	PFOSA	0.0014	1.4	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.035	35	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-969TwoMileRunRd-PT	969TwoMileRunRd-PT	149	8/8/2023	DONA	DONA	0.0056	5.6	N	U		LIQUID	FS	Drinking Water	39.328425	-81.8451
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	PFECA-A	PFECA-A	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Hfpo Dimer Acid	HFPO-DA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorodecanoic Acid	PFDA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.015	15	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	PFECA B	PFECA B	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluoroheptanoic Acid	PFHpA	0.010	10	Y			LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorononanoic Acid	PFNA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	PFOS	PFOS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	PFOA	PFOA	0.48	480	Y			LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorobutanoic Acid	PFBA	0.0086	8.6	Y			LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	PFECA-F	PFECA-F	0.0030	3	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluoropentanoic Acid	PFPA	0.0042	4.2	Y			LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorohexanoic Acid	PFHxA	0.0092	9.2	Y			LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0023	2.3	Y			LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0076	7.6	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	Y			LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		LIQUID	FS	Drinking Water	39.3862358	-81.62632658
GC3Q23-975StoneQuarryRd-PT	975StoneQuarryRd-PT	547	8/29/2023	DONA	DONA	0.0060	6	N	U		LIQUID	FS	Drinking Water	39.3862358	-81

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorodecane Sulfonic Acid	PFDS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	6:2 Fluorotelomer sulfonate	6:2 FTS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorododecanoic Acid	PFDoA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorononanesulfonic Acid	PFNS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluoro(2-ethoxyethane)sulfonic Acid	PFEESA	0.0030	3	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	PFOS	PFOS	0.0040	4	Y	I	J	Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	PFOA	PFOA	3.5	3500	Y			Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorobutanoic Acid	PFBA	0.035	35	Y			Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	PFECA-F	PFECA-F	0.0030	3	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0060	6	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluoropentanoic Acid	PFPA	0.012	12	Y			Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorohexanoic Acid	PFHxA	0.044	44	Y			Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0023	2.3	Y			Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	3:3 Fluorotelomer Carboxylic Acid	3:3 FTCA	0.0075	7.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0041	4.1	Y			Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	Perfluorooctane Sulfonamide	PFOSA	0.0015	1.5	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	7:3 Fluorotelomer Carboxylic Acid	7:3 FTCA	0.038	38	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	5:3 Fluorotelomer Carboxylic Acid	5:3 FTCA	0.038	38	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC3Q23-996MillBranchRd-PT	996MillBranchRd-PT	608	8/18/2023	DONA	DONA	0.0060	6	N	U		Liquid	FS	Drinking Water	39.298884	-81.648384
GC0818-BELPSD-PT	BELPSD-PT		8/24/2018	PFOA	PFOA	0.38	380	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0918-BELPSD-PT	BELPSD-PT		9/25/2018	PFOA	PFOA	0.37	370	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1018-BELPSD-PT	BELPSD-PT		10/24/2018	PFOA	PFOA	0.32	320	Y		J	Liquid	FS	Drinking Water	39.275376	-81.583895
GC1118-BELPSD-PT	BELPSD-PT		11/16/2018	PFOA	PFOA	0.34	340	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1218-BELPSD-PT	BELPSD-PT		12/18/2018	PFOA	PFOA	0.3	300	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0119-BELPSD-PT	BELPSD-PT		1/25/2019	PFOA	PFOA	0.34	340	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0219-BELPSD-PT	BELPSD-PT		2/22/2019	PFOA	PFOA	0.38	380	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0319-BELPSD-PT	BELPSD-PT		3/19/2019	PFOA	PFOA	0.4	400	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0419-BELPSD-PT	BELPSD-PT		4/26/2019	PFOA	PFOA	0.38	380	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0519-BELPSD-PT	BELPSD-PT		5/20/2019	PFOA	PFOA	0.35	350	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0619-BELPSD-PT	BELPSD-PT		6/17/2019	PFOA	PFOA	0.38	380	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0719-BELPSD-PT	BELPSD-PT		7/22/2019	PFOA	PFOA	0.37	370	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0819-BELPSD-PT	BELPSD-PT		8/20/2019	PFOA	PFOA	0.38	380	Y			LIQUID	FS	Drinking Water	39.275376	-81.583895
GC0919-BELPSD-PT	BELPSD-PT		9/26/2019	PFOA	PFOA	0.35	350	Y			LIQUID	FS	Drinking Water	39.275376	-81.583895
GC1019-BELPSD-PT	BELPSD-PT		10/21/2019	PFOA	PFOA	0.35	350	Y			LIQUID	FS	Drinking Water	39.275376	-81.583895
GC1119-BELPSD-PT	BELPSD-PT		11/20/2019	PFOA	PFOA	0.42	420	Y			LIQUID	FS	Drinking Water	39.275376	-81.583895
GC1219-BELPSD-PT	BELPSD-PT		12/16/2019	PFOA	PFOA	0.41	410	Y			LIQUID	FS	Drinking Water	39.275376	-81.583895
GC0120-BELPSD-PT	BELPSD-PT		1/20/2020	PFOA	PFOA	0.32	320	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0220-BELPSD-PT	BELPSD-PT		2/18/2020	PFOA	PFOA	0.36	360	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0320-BELPSD-PT	BELPSD-PT		3/16/2020	PFOA	PFOA	0.34	340	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0420-BELPSD-PT	BELPSD-PT		4/20/2020	PFOA	PFOA	0.3	300	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0520-BELPSD-PT	BELPSD-PT		5/18/2020	PFOA	PFOA	0.41	410	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0620-BELPSD-PT	BELPSD-PT		6/22/2020	PFOA	PFOA	0.37	370	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0720-BELPSD-PT	BELPSD-PT		7/21/2020	PFOA	PFOA	0.36	360	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0820-BELPSD-PT	BELPSD-PT		8/18/2020	PFOA	PFOA	0.32	320	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0920-BELPSD-PT	BELPSD-PT		9/21/2020	PFOA	PFOA	0.33	330	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1020-BELPSD-PT	BELPSD-PT		10/20/2020	PFOA	PFOA	0.43	430	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1120-BELPSD-PT	BELPSD-PT		11/16/2020	PFOA	PFOA	0.35	350	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1220-BELPSD-PT	BELPSD-PT		12/14/2020	PFOA	PFOA	0.37	370	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0121-BELPSD-PT	BELPSD-PT		1/18/2021	PFOA	PFOA	0.35	350	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0221-BELPSD-PT	BELPSD-PT		2/16/2021	PFOA	PFOA	0.31	310	Y	H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0321-BELPSD-PT	BELPSD-PT		3/16/2021	PFOA	PFOA	0.47	470	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0421-BELPSD-PT	BELPSD-PT		4/20/2021	PFOA	PFOA	0.3	300	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0521-BELPSD-PT	BELPSD-PT		5/18/2021	PFOA	PFOA	0.33	330	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0621-BELPSD-PT	BELPSD-PT		6/14/2021	PFOA	PFOA	0.45	450	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0721-BELPSD-PT	BELPSD-PT		7/19/2021	PFOA	PFOA	0.31	310	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0821-BELPSD-PT	BELPSD-PT		8/16/2021	PFOA	PFOA	0.31	310	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0921-BELPSD-PT	BELPSD-PT		9/20/2021	PFOA	PFOA	0.37	370	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1021-BELPSD-PT	BELPSD-PT		10/18/2021	PFOA	PFOA	0.38	380	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1121-BELPSD-PT	BELPSD-PT		11/15/2021	PFOA	PFOA	0.35	350	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1221-BELPSD-PT	BELPSD-PT		12/13/2021	PFOA	PFOA	0.38	380	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0122-BELPSD-PT	BELPSD-PT		1/18/2022	PFOA	PFOA	0.4	400	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0222-BELPSD-PT	BELPSD-PT		2/14/2022	PFOA	PFOA	0.32	320	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0322-BELPSD-PT	BELPSD-PT		3/14/2022	PFOA	PFOA	0.34	340	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0422-BELPSD-PT	BELPSD-PT		4/18/2022	PFOA	PFOA	0.34	340	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0522-BELPSD-PT	BELPSD-PT		5/16/2022	PFOA	PFOA	0.37	370	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0622-BELPSD-PT	BELPSD-PT		6/21/2022	PFOA	PFOA	0.43	430	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0722-BELPSD-PT	BELPSD-PT		7/18/2022	PFOA	PFOA	0.37	370	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0822-BELPSD-PT	BELPSD-PT		8/18/2022	PFOA	PFOA	0.5	500	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0922-BELPSD-PT	BELPSD-PT		9/19/2022	PFOA	PFOA	0.39	390	Y			LIQUID	FS	Drinking Water	39.275376	-81.583895
GC1022-BELPSD-PT	BELPSD-PT		10/19/2022	PFOA	PFOA	0.39	390	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1122-BELPSD-PT	BELPSD-PT		11/15/2022	PFOA	PFOA	0.37	370	Y			LIQUID	FS	Drinking Water	39.275376	-81.583895
GC1222-BELPSD-PT	BELPSD-PT		12/19/2022	PFOA	PFOA	0.42	420	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0123-BELPSD-PT	BELPSD-PT		1/16/2023	PFOA	PFOA	0.38	380	Y			LIQUID	FS	Drinking Water	39.275376	-81.583895
GC0223-BELPSD-PT	BELPSD-PT		2/20/2023	PFOA	PFOA	0.41	410	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Hfpo Dimer Acid	HFPO-DA	0.0023	2.3	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	PFOA	PFOA	0.34	340	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.024	24	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluoroheptanoic Acid	PFHpA	0.02	20	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluorohexanoic Acid	PFHxA	0.023	23	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.035	35	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0323-BELPSD-PT	BELPSD-PT		3/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	PFOA	PFOA	0.36	360	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0027	2.7	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.027	27	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluoroheptanoic Acid	PFHpA	0.022	22	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluorohexanoic Acid	PFHxA	0.026	26	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.046	46	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0423-BELPSD-PT	BELPSD-PT		4/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.046	46	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluorohexanoic Acid	PFHxA	0.028	28	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluoroheptanoic Acid	PFHpA	0.024	24	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.026	26	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	PFOS	PFOS	0.0016	1.6	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	PFOA	PFOA	0.35	350	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0523-BELPSD-PT	BELPSD-PT		5/23/2023	Hfpo Dimer Acid	HFPO-DA	0.0029	2.9	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Hfpo Dimer Acid	HFPO-DA	0.0027	2.7	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	PFOA	PFOA	0.36	360	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.048	48	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluorohexanoic Acid	PFHxA	0.029	29	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluoroheptanoic Acid	PFHpA	0.023	23	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.032	32	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0623-BELPSD-PT	BELPSD-PT		6/20/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0723-BELPSD-

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.031	31	Y	H	J	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	Perfluoroheptanoic Acid	PFHpA	0.025	25	Y	H	J	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	Perfluorohexanoic Acid	PFHxA	0.031	31	Y	H	J	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.049	49	Y	H	J	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0823-BELPSD-PT	BELPSD-PT		8/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.044	44	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluorohexanoic Acid	PFHxA	0.028	28	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluoroheptanoic Acid	PFHpA	0.023	23	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.026	26	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0027	2.7	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC0923-BELPSD-PT	BELPSD-PT		9/18/2023	PFOA	PFOA	0.38	380	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Hfpo Dimer Acid	HFPO-DA	0.003	3	Y	H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	PFOA	PFOA	0.36	360	Y	H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluorodecanoic Acid	PFDA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	DONA	DONA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	PFOS	PFOS	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.033	33	Y	H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluoroheptanoic Acid	PFHpA	0.022	22	Y	H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluorononanoic Acid	PFNA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluoroundecanoic Acid	PFUnA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluorohexanoic Acid	PFHxA	0.029	29	Y	H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluorododecanoic Acid	PFDoA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.052	52	Y	H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1023-BELPSD-PT	BELPSD-PT		10/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.026	26	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluoroheptanoic Acid	PFHpA	0.02	20	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.043	43	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluorohexanoic Acid	PFHxA	0.025	25	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	PFOA	PFOA	0.38	380	Y			Liquid	FS	Drinking Water	39.275376	-81.583895
GC1123-BELPSD-PT	BELPSD-PT		11/13/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.275376	-81.583895
GC818-CRABCREEK-PT	CRABCREEK-PT		8/21/2018	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC918-CRABCREEK-PT	CRABCREEK-PT		9/19/2018	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1018-CRABCREEK-PT	CRABCREEK-PT		10/23/2018	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1118-CRABCREEK-PT	CRABCREEK-PT		11/15/2018	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1218-CRABCREEK-PT	CRABCREEK-PT		12/19/2018	PFOA	PFOA	0.01000	10	N	<		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0119-CRABCREEK-PT	CRABCREEK-PT		1/22/2019	PFOA	PFOA	0.01000	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0219-CRABCREEK-PT	CRABCREEK-PT		2/20/2019	PFOA	PFOA	0.01000	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0319-CRABCREEK-PT	CRABCREEK-PT		3/20/2019	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0419-CRABCREEK-PT	CRABCREEK-PT		4/17/2019	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0519-CRABCREEK-PT	CRABCREEK-PT		5/22/2019	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0619-CRABCREEK-PT	CRABCREEK-PT		6/19/2019	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0719-CRABCREEK-PT	CRABCREEK-PT		7/24/2019	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0819-CRABCREEK-PT	CRABCREEK-PT		8/21/2019	PFOA	PFOA	0.0	10	N	U		LIQUID	FS	Drinking Water	38.7636414	-82.194275
GC0919-CRABCREEK-PT	CRABCREEK-PT		9/24/2019	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1019-CRABCREEK-PT	CRABCREEK-PT		10/24/2019	PFOA	PFOA	0.01	10	N	U		LIQUID	FS	Drinking Water	38.7636414	-82.194275
GC1119-CRABCREEK-PT	CRABCREEK-PT		11/18/2019	PFOA	PFOA	0.010	10	N	U		LIQUID	FS	Drinking Water	38.7636414	-82.194275
GC1219-CRABCREEK-PT	CRABCREEK-PT		12/18/2019	PFOA	PFOA	0.01	10	N	U		LIQUID	FS	Drinking Water	38.7636414	-82.194275
GC0120-CRABCREEK-PT	CRABCREEK-PT		1/22/2020	PFOA	PFOA	0.010	10	N	U		LIQUID	FS	Drinking Water	38.7636414	-82.194275
GC0220-CRABCREEK-PT	CRABCREEK-PT		2/19/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0320-CRABCREEK-PT	CRABCREEK-PT		3/18/2020	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0420-CRABCREEK-PT	CRABCREEK-PT		4/22/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0520-CRABCREEK-PT	CRABCREEK-PT		5/21/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0620-CRABCREEK-PT	CRABCREEK-PT		6/23/2020	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0720-CRABCREEK-PT	CRABCREEK-PT		7/23/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0820-CRABCREEK-PT	CRABCREEK-PT		8/19/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0920-CRABCREEK-PT	CRABCREEK-PT		9/23/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1020-CRABCREEK-PT	CRABCREEK-PT		10/21/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1120-CRABCREEK-PT	CRABCREEK-PT		11/17/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1220-CRABCREEK-PT	CRABCREEK-PT		12/16/2020	PFOA	PFOA	0.01000	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0121-CRABCREEK-PT	CRABCREEK-PT		1/20/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0221-CRABCREEK-PT	CRABCREEK-PT		2/18/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0321-CRABCREEK-PT	CRABCREEK-PT		3/17/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0421-CRABCREEK-PT	CRABCREEK-PT		4/21/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0521-CRABCREEK-PT	CRABCREEK-PT		5/19/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0621-CRABCREEK-PT	CRABCREEK-PT		6/17/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0721-CRABCREEK-PT	CRABCREEK-PT		7/20/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0821-CRABCREEK-PT	CRABCREEK-PT		8/16/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0921-CRABCREEK-PT	CRABCREEK-PT		9/21/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1021-CRABCREEK-PT	CRABCREEK-PT		10/19/2021	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1121-CRABCREEK-PT	CRABCREEK-PT		11/18/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1221-CRABCREEK-PT	CRABCREEK-PT		12/14/2021	PFOA	PFOA	0.010	10	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0122-CRABCREEK-PT	CRABCREEK-PT		1/19/2022	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0222-CRABCREEK-PT	CRABCREEK-PT		2/15/2022	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0322-CRABCREEK-PT	CRABCREEK-PT		3/15/2022	PFOA	PFOA	0.010	10	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0422-CRABCREEK-PT	CRABCREEK-PT		4/20/2022	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0522-CRABCREEK-PT	CRABCREEK-PT		5/18/2022	PFOA	PFOA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0622-CRABCREEK-PT	CRABCREEK-PT		6/22/2022	PFOA	PFOA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0722-CRABCREEK-PT	CRABCREEK-PT		7/19/2022	PFOA	PFOA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0822-CRABCREEK-PT	CRABCREEK-PT		8/16/2022	PFOA	PFOA	0.0	1.6	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0922-CRABCREEK-PT	CRABCREEK-PT		9/19/2022	PFOA	PFOA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1022-CRABCREEK-PT	CRABCREEK-PT		10/20/2022	PFOA	PFOA	0.0	1.8	N	U		LIQUID	FS	Drinking Water	38.7636414	-82.194275
GC1122-CRABCREEK-PT	CRABCREEK-PT		11/16/2022	PFOA	PFOA	0.002	1.9	N	U		LIQUID	FS	Drinking Water	38.7636414	-82.194275
GC1222-CRABCREEK-PT	CRABCREEK-PT		12/20/2022	PFOA	PFOA	0.002	1.8	Y			Liquid	FS	Drinking Water	38.7636414	-82.194275
GC123-CRABCREEK-PT	CRABCREEK-PT		1/17/2023	PFOA	PFOA	0.002	1.8	Y			Liquid	FS	Drinking Water	38.7636414	-82.194275
GC223-CRABCREEK-PT	CRABCREEK-PT		2/21/2023	PFOA	PFOA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Hfpo Dimer Acid	HFPO-DA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluorodecanoic Acid	PFDA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluoroheptanoic Acid	PFHpA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	PFOS	PFOS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	PFOA	PFOA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0323-CRABCREEK-PT	CRABCREEK-PT		3/21/2023	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	PFOA	PFOA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	PFOS	PFOS	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	DONA	DONA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	Perfluorotetradecanoic Acid	PFTeA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423-CRABCREEK-PT	CRABCREEK-PT		4/19/2023	Perfluoroheptanoic Acid	PFHpA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0423

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	DONA	DONA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	PFOA	PFOA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	Perfluorohexanoic Acid	PFHxA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0623-CRABCREEK-PT	CRABCREEK-PT		6/21/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluorononanoic Acid	PFNA	0.002	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluoroundecanoic Acid	PFUnA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluorohexanoic Acid	PFHxA	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluorotridecanoic Acid	PFTriA	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	PFOA	PFOA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	PFOS	PFOS	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	DONA	DONA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluoroheptanoic Acid	PFHpA	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0723-CRABCREEK-PT	CRABCREEK-PT		7/25/2023	Perfluorodecanoic Acid	PFDA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluorononanoic Acid	PFNA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluorohexanoic Acid	PFHxA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	PFOA	PFOA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluoroheptanoic Acid	PFHpA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0823-CRABCREEK-PT	CRABCREEK-PT		8/22/2023	Perfluorodecanoic Acid	PFDA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluorodecanoic Acid	PFDA	0.0020	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluoroheptanoic Acid	PFHpA	0.0020	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0020	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	PFOS	PFOS	0.002	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	DONA	DONA	0.00	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	PFOA	PFOA	0.00	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluorohexanoic Acid	PFHxA	0	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluorododecanoic Acid	PFDoA	0	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluoroundecanoic Acid	PFUnA	0.002	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC0923-CRABCREEK-PT	CRABCREEK-PT		9/19/2023	Perfluorononanoic Acid	PFNA	0.00	2	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluorohexanoic Acid	PFHxA	0	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	PFOA	PFOA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	PFOS	PFOS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluoroheptanoic Acid	PFHpA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1023-CRABCREEK-PT	CRABCREEK-PT		10/17/2023	Perfluorodecanoic Acid	PFDA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0022	2.2	Y			Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	PFOA	PFOA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
GC1123-CRABCREEK-PT	CRABCREEK-PT		11/14/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.7636414	-82.194275
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	PFOS	PFOS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluoropentanoic Acid	PFPA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluorohexanoic Acid	PFHxA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	PFOA	PFOA	0.0027	2.7	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0222-DOWNSTREAM-A	DOWNSTREAM		2/16/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	PFOS	PFOS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluoropentanoic Acid	PFPA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluorohexanoic Acid	PFHxA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	PFOA	PFOA	0.0027	2.7	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0322-DOWNSTREAM-A	DOWNSTREAM		3/16/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV0422-DOWNSTREAM-A	DOWNSTREAM		5/11/2022	Hfpo Dimer Acid	HFPO-DA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.243334	-81.694079
OHRV0422-DOWNSTREAM-A	DOWNSTREAM		5/11/2022	PFOS	PFOS	0.0016	1.6	Y			LIQUID	FS	Other Liquid	39.243334	-81.694079
OHRV0422-DOWNSTREAM-A	DOWNSTREAM		5/11/2022	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.243334	-81.694079
OHRV0422-DOWNSTREAM-A	DOWNSTREAM		5/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.243334	-81.694079
OHRV0422-DOWNSTREAM-A	DOWNSTREAM		5/11/2022	Perfluoropentanoic Acid	PFPA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.243334	-81.694079
OHRV0422-DOWNSTREAM-A	DOWNSTREAM		5/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Other Liquid	39.243334	-81.694079
OHRV0422-DOWNSTREAM-A	DOWNSTREAM		5/11/2022	Perfluorohexanoic Acid	PFHxA	0.0016	1.6	N	U		LIQUID	FS	Other Liquid	39.243334	-81.694079
OHRV0422-DOWNSTREAM-A	DOWNSTREAM		5/11/2

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluoropentanoic Acid	PFPA	0.0018	1.8	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	PFOA	PFOA	0.009	9	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0034	3.4	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-063022-DOWNSTREAM-A	Downstream		6/30/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Hfpo Dimer Acid	HFPO-DA	0.003	3	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	PFOS	PFOS	0.0026	2.6	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluoropentanoic Acid	PFPA	0.0036	3.6	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluorohexanoic Acid	PFHxA	0.0033	3.3	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	PFOA	PFOA	0.0051	5.1	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0038	3.8	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0822-DOWNSTREAM-A	Downstream		8/17/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Hfpo Dimer Acid	HFPO-DA	0.0077	7.7	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	PFOS	PFOS	0.0021	2.1	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluoropentanoic Acid	PFPA	0.04	40	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluorohexanoic Acid	PFHxA	0.0024	2.4	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	PFOA	PFOA	0.0033	3.3	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0051	5.1	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DOWNSTREAM-A	DOWNSTREAM		9/28/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Hfpo Dimer Acid	HFPO-DA	0.003	3	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	PFOS	PFOS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluoropentanoic Acid	PFPA	0.0021	2.1	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	PFOA	PFOA	0.0036	3.6	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0034	3.4	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DOWNSTREAM-A	Downstream		11/2/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0027	2.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluoropentanoic Acid	PFPA	0.0063	6.3	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	PFOA	PFOA	0.003	3	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluorobutanoic Acid	PFBA	0.0044	4.4	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0023	2.3	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1222-DOWNSTREAM-A	DOWNSTREAM		12/12/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00716	7.16	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00716	7.16	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	DONA	DONA	0.00716	7.16	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Hfpo Dimer Acid	HFPO-DA	0.00716	7.16	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00358	3.58	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluorobutanoic Acid	PFBA	0.00716	7.16	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluorodecanoic Acid	PFDA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluorododecanoic Acid	PFDoA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluoroheptanoic Acid	PFHpA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluorohexanoic Acid	PFHxA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluorononanoic Acid	PFNA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluoropentanoic Acid	PFPA	0.00358	3.58	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluorotetradecanoic Acid	PFTeA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluorotridecanoic Acid	PFTriA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	Perfluoroundecanoic Acid	PFUnA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	PFOA	PFOA	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-020623-DOWNSTREAM-A	Downstream		2/6/2023	PFOS	PFOS	0.00179	1.79	N	U		LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DWNEAST-BOT	DWNEAST		9/28/2022	Hfpo Dimer Acid	HFPO-DA	0.014	14	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-0922-DWNEAST-BOT	DWNEAST		9/28/2022	PFOA	PFOA	0.0043	4.3	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-0922-DWNEAST-MID	DWNEAST		9/28/2022	Hfpo Dimer Acid	HFPO-DA	0.014	14	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-0922-DWNEAST-MID	DWNEAST		9/28/2022	PFOA	PFOA	0.0043	4.3	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-0922-DWNEAST-SUR	DWNEAST		9/28/2022	Hfpo Dimer Acid	HFPO-DA	0.015	15	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-0922-DWNEAST-SUR	DWNEAST		9/28/2022	PFOA	PFOA	0.0042	4.2	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-1122-DWNEAST-BOT	DWNEAST		11/2/2022	Hfpo Dimer Acid	HFPO-DA	0.0027	2.7	N	U		Liquid	FS	Surface Water	39.2436353	-81.6922227
OHRV-1122-DWNEAST-BOT	DWNEAST		11/2/2022	PFOA	PFOA	0.0046	4.6	Y			Liquid	FS	Surface Water	39.2436353	-81.6922227
OHRV-1122-DWNEAST-MID	DWNEAST		11/2/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		Liquid	FS	Surface Water	39.2436353	-81.6922227
OHRV-1122-DWNEAST-MID	DWNEAST		11/2/2022	PFOA	PFOA	0.0044	4.4	Y			Liquid	FS	Surface Water	39.2436353	-81.6922227
OHRV-1122-DWNEAST-SUR	DWNEAST		11/2/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	Y			Liquid	FS	Surface Water	39.2436353	-81.6922227
OHRV-1122-DWNEAST-SUR	DWNEAST		11/2/2022	PFOA	PFOA	0.0043	4.3	Y			Liquid	FS	Surface Water	39.2436353	-81.6922227
OHRV-1222-DWNEAST-BOT	DWNEAST		12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0027	2.7	N	U		LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-1222-DWNEAST-BOT	DWNEAST		12/12/2022	PFOA	PFOA	0.0027	2.7	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-1222-DWNEAST-MID	DWNEAST		12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0027	2.7	N	U		LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-1222-DWNEAST-MID	DWNEAST		12/12/2022	PFOA	PFOA	0.0026	2.6	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-1222-DWNEAST-SUR	DWNEAST		12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-1222-DWNEAST-SUR	DWNEAST		12/12/2022	PFOA	PFOA	0.0028	2.8	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-020623-DWNEAST-BOT	DWNEAST		2/6/2023	Hfpo Dimer Acid	HFPO-DA	0.0195	19.5	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-020623-DWNEAST-BOT	DWNEAST		2/6/2023	PFOA	PFOA	0.00888	8.88	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-020623-DWNEAST-MID	DWNEAST		2/6/2023	Hfpo Dimer Acid	HFPO-DA	0.0188	18.8	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-020623-DWNEAST-MID	DWNEAST		2/6/2023	PFOA	PFOA	0.00888	8.88	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-020623-DWNEAST-SUR	DWNEAST		2/6/2023	Hfpo Dimer Acid	HFPO-DA	0.0155	15.5	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-020623-DWNEAST-SUR	DWNEAST		2/6/2023	PFOA	PFOA	0.00814	8.14	Y			LIQUID	FS	Surface Water	39.2436353	-81.6922227
OHRV-0922-DWNMID-BOT	DWNMID		9/28/2022	Hfpo Dimer Acid	HFPO-DA	0.0068	6.8	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DWNMID-BOT	DWNMID		9/28/2022	PFOA	PFOA	0.0034	3.4	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DWNMID-MID	DWNMID		9/28/2022	Hfpo Dimer Acid	HFPO-DA	0.0096	9.6	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DWNMID-MID	DWNMID		9/28/2022	PFOA	PFOA	0.0037	3.7	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DWNMID-SUR	DWNMID		9/28/2022	Hfpo Dimer Acid	HFPO-DA	0.0048	4.8	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-0922-DWNMID-SUR	DWNMID		9/28/2022	PFOA	PFOA	0.0033	3.3	Y			LIQUID	FS	Surface Water	39.243334	-81.694079
OHRV-1122-DWNMID-BOT	DWNMID		11/2/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		Liquid	FS	Surface

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
OHRV-1222-DWNWEST-MID	DWNWEST		12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.2433756	-81.69624194
OHRV-1222-DWNWEST-MID	DWNWEST		12/12/2022	PFOA	PFOA	0.005	5	Y			LIQUID	FS	Surface Water	39.2433756	-81.69624194
OHRV-1222-DWNWEST-SUR	DWNWEST		12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.2433756	-81.69624194
OHRV-1222-DWNWEST-SUR	DWNWEST		12/12/2022	PFOA	PFOA	0.0041	4.1	Y			LIQUID	FS	Surface Water	39.2433756	-81.69624194
OHRV-020623-DWNWEST-BOT	DWNWEST		2/6/2023	Hfpo Dimer Acid	HFPO-DA	0.00722	7.22	N	U		LIQUID	FS	Surface Water	39.2433756	-81.69624194
OHRV-020623-DWNWEST-BOT	DWNWEST		2/6/2023	PFOA	PFOA	0.0158	15.8	Y			LIQUID	FS	Surface Water	39.2433756	-81.69624194
OHRV-020623-DWNWEST-MID	DWNWEST		2/6/2023	Hfpo Dimer Acid	HFPO-DA	0.00715	7.15	N	U		LIQUID	FS	Surface Water	39.2433756	-81.69624194
OHRV-020623-DWNWEST-MID	DWNWEST		2/6/2023	PFOA	PFOA	0.0164	16.4	Y			LIQUID	FS	Surface Water	39.2433756	-81.69624194
OHRV-020623-DWNWEST-SUR	DWNWEST		2/6/2023	Hfpo Dimer Acid	HFPO-DA	0.00695	6.95	N	U		LIQUID	FS	Surface Water	39.2433756	-81.69624194
OHRV-020623-DWNWEST-SUR	DWNWEST		2/6/2023	PFOA	PFOA	0.0135	13.5	Y			LIQUID	FS	Surface Water	39.2433756	-81.69624194
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorononanesulfonic Acid	PFNS	0.0005	0.54	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFOA	PFOA	0.64000	640	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFO3OA	PFO3OA	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFO3OA	PFO3OA	0.20000	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorohexadecanoic Acid (PFHxDA)	PFHxDA	0.00	0.27	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	0.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	9Cl-PF3ONS	9Cl-PF3ONS	0.00	0.28	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	NaDONA	NaDONA	0.00	0.28	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorotridecanoic Acid	PFTriA	0.00	0.36	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluoroheptane Sulfonic Acid (PFHpS)	PFHpS	0.00	0.36	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluoroheptanoic Acid	PFHpA	0.0	21	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	0.00	1.1	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorononanoic Acid	PFNA	0.00	1.4	Y	J	J	Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluoroundecanoic Acid	PFUnA	0.00	0.36	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluoropentanoic Acid	PFPA	0.0	7.8	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluoropentane Sulfonic Acid (PFPeS)	PFPeS	0.00	0.36	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	6:2 Fluorotelomer sulfonate	6:2 FTS	0.00	0.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	0.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorohexanoic Acid	PFHxA	0.02	15	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	N-methyl perfluoro-1-octanesulfonamide	NMeFOSA	0.00	2.7	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorododecanoic Acid	PFDoA	0.00	0.45	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorohexane Sulfonic Acid	PFHxS	0.00140	1.4	Y	J	J	Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFMOAA	PFMOAA	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFMOAA	PFMOAA	0.20000	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorooctane Sulfonamide	PFOSA	0.0	0.45	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	4:2 FTS	0.0009	0.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFECA-G	PFECA-G	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFECA-G	PFECA-G	0.200	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Hfpo Dimer Acid	HFPO-DA	0.6	630	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PMPA	PMPA	0.20000	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PMPA	PMPA	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorodecanoic Acid	PFDA	0.0008	0.81	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorodecane Sulfonic Acid	PFDS	0.0	0.54	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	10:2 Fluorotelomer sulfonate	10:2 FTS	0.0009	0.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorooctadecanoic Acid	PFODA	0.0	0.45	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PEPA	PEPA	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PEPA	PEPA	0.200	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PS Acid	PS Acid	0.2000	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PS Acid	PS Acid	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	8:2 FTS	0.00180	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Hydro-PS Acid	Hydro-PS Acid	0.20000	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorododecane Sulfonic Acid (PFDoS)	PFDoS	0.0	0.27	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	0.37	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFO2HxA	PFO2HxA	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFO2HxA	PFO2HxA	0.20	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFO4DA	PFO4DA	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFO4DA	PFO4DA	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFO5DA	PFO5DA	0.2	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFO5DA	PFO5DA	0.20000	200	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	0.0	2.7	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	0.0	0.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	PFOS	PFOS	0.00380	3.8	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorotetradecanoic Acid	PFTeA	0.0	0.27	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorobutanoic Acid	PFBA	0.0	11	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GAC_SYSTEM-PT-0918	GAC-PT		9/20/2018	Perfluorobutane Sulfonic Acid	PFBS	0.00250	2.5	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
DW2Q19-LAKIN AT	LAKIN AT		5/9/2019	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q20-LAKIN AT	LAKIN AT		5/27/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q21-LAKIN AT	LAKIN AT		4/21/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q22-LAKIN AT	LAKIN AT		4/20/2022	PFOA	PFOA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	PFOS	PFOS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	DONA	DONA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	PFOA	PFOA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN AT	LAKIN AT		5/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2Q19-LAKIN WELL 1	LAKIN WELL 1		5/9/2019	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q19-LAKIN WELL 1-D	LAKIN WELL 1		5/9/2019	PFOA	PFOA	0.0	10	N	U		Liquid	DUP	Drinking Water	38.9654579	-82.084625
DW2Q20-LAKIN WELL 1	LAKIN WELL 1		5/27/2020	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q21-LAKIN WELL 1	LAKIN WELL 1		4/21/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q22-LAKIN WELL 1	LAKIN WELL 1		4/20/2022	PFOA	PFOA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	PFOS	PFOS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	DONA	DONA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	PFOA	PFOA	0.0	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 1	LAKIN WELL 1		5/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2Q19-LAKIN WELL 2	LAKIN WELL 2		5/9/2019	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q20-LAKIN WELL 2	LAKIN WELL 2		5/27/2020	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q21-LAKIN WELL 2	LAKIN WELL 2		4/21/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q21-LAKIN WELL 2-D	LAKIN WELL 2		4/21/2021	PFOA	PFOA	0.010	10	N	U		Liquid	DUP	Drinking Water	38.9654579	-82.084625
DW2Q22-LAKIN WELL 2	LAKIN WELL 2		4/20/2022	PFOA	PFOA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.9654579	-82.084625
DW2Q22-LAKIN WELL 2-D	LAKIN WELL 2		4/20/2022	PFOA	PFOA	0.002	1.9	N	U		Liquid	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	PFOS	PFOS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	PFOS	PFOS	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	DONA	DONA	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	DONA	DONA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluorohexanoic Acid	PFHxA	0.00	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2	LAKIN WELL 2		5/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	38.9654579	-82.084625
DW2023-LAKIN WELL 2-D	LAKIN WELL 2		5/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	DUP	Drinking Water	38.9654579	-82.084625

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC1218-LETART-PT	LETART-PT		12/19/2018	PFOA	PFOA	0.0	10	N	<		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0119-LETART-PT	LETART-PT		1/22/2019	PFOA	PFOA	0.01000	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0219-LETART-PT	LETART-PT		2/20/2019	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0319-LETART-PT	LETART-PT		3/20/2019	PFOA	PFOA	0.0	10	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0419-LETART-PT	LETART-PT		4/17/2019	PFOA	PFOA	0.0	10	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0519-LETART-PT	LETART-PT		5/22/2019	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0619-LETART-PT	LETART-PT		6/19/2019	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0719-LETART-PT	LETART-PT		7/24/2019	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0819-LETART-PT	LETART-PT		8/21/2019	PFOA	PFOA	0.010	10	N	U		LIQUID	FS	Drinking Water	38.8863869	-81.938957
GC0919-LETART-PT	LETART-PT		9/24/2019	PFOA	PFOA	0.0	10	N	U		LIQUID	FS	Drinking Water	38.8863869	-81.938957
GC1019-LETART-PT	LETART-PT		10/24/2019	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1119-LETART-PT	LETART-PT		11/18/2019	PFOA	PFOA	0.010	10	N	U		LIQUID	FS	Drinking Water	38.8863869	-81.938957
GC1219-LETART-PT	LETART-PT		12/18/2019	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0120-LETART-PT	LETART-PT		1/22/2020	PFOA	PFOA	0.01	10	N	U		LIQUID	FS	Drinking Water	38.8863869	-81.938957
GC0220-LETART-PT	LETART-PT		2/19/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0320-LETART-PT	LETART-PT		3/18/2020	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0420-LETART-PT	LETART-PT		4/22/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0520-LETART-PT	LETART-PT		5/21/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0620-LETART-PT	LETART-PT		6/23/2020	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0720-LETART-PT	LETART-PT		7/23/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0820-LETART-PT	LETART-PT		8/19/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0920-LETART-PT	LETART-PT		9/23/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1020-LETART-PT	LETART-PT		10/21/2020	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1120-LETART-PT	LETART-PT		11/17/2020	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1220-LETART-PT	LETART-PT		12/16/2020	PFOA	PFOA	0.01000	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0121-LETART-PT	LETART-PT		1/20/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0221-LETART-PT	LETART-PT		2/18/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0321-LETART-PT	LETART-PT		3/17/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0421-LETART-PT	LETART-PT		4/21/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0521-LETART-PT	LETART-PT		5/19/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0621-LETART-PT	LETART-PT		6/17/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0721-LETART-PT	LETART-PT		7/20/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0821-LETART-PT	LETART-PT		8/16/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0921-LETART-PT	LETART-PT		9/21/2021	PFOA	PFOA	0.0100	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1021-LETART-PT	LETART-PT		10/19/2021	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1121-LETART-PT	LETART-PT		11/18/2021	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1221-LETART-PT	LETART-PT		12/14/2021	PFOA	PFOA	0.010	10	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0122-LETART-PT	LETART-PT		1/19/2022	PFOA	PFOA	0.0	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0222-LETART-PT	LETART-PT		2/15/2022	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0322-LETART-PT	LETART-PT		3/15/2022	PFOA	PFOA	0.0100	10	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0422-LETART-PT	LETART-PT		4/20/2022	PFOA	PFOA	0.010	10	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0522-LETART-PT	LETART-PT		5/18/2022	PFOA	PFOA	0.006	5.9	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0622-LETART-PT	LETART-PT		6/22/2022	PFOA	PFOA	0.007	6.5	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0722-LETART-PT	LETART-PT		7/19/2022	PFOA	PFOA	0.004	4.1	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0822-LETART-PT	LETART-PT		8/16/2022	PFOA	PFOA	0.0	4.6	Y	B	B	Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0922-LETART-PT	LETART-PT		9/20/2022	PFOA	PFOA	0.008	8.1	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1022-LETART-PT	LETART-PT		10/20/2022	PFOA	PFOA	0.0	7.9	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1122-LETART-PT	LETART-PT		11/16/2022	PFOA	PFOA	0.003	3.4	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1222-LETART-PT	LETART-PT		12/20/2022	PFOA	PFOA	0.008	7.5	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC123-LETART-PT	LETART-PT		1/17/2023	PFOA	PFOA	0.005	4.6	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0223-LETART-PT	LETART-PT		2/21/2023	PFOA	PFOA	0.008	7.8	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	DONA	DONA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	PFOA	PFOA	0.007	6.5	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0323-LETART-PT	LETART-PT		3/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	DONA	DONA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	PFOS	PFOS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluoroheptanoic Acid	PFHpA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	Perfluorodecanoic Acid	PFDA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	PFOA	PFOA	0.00	3.6	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0423-LETART-PT	LETART-PT		4/19/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluoroheptanoic Acid	PFHpA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	DONA	DONA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00180	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	PFOA	PFOA	0.008	8.1	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0523-LETART-PT	LETART-PT		5/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Hfpo Dimer Acid	HFPO-DA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluoroheptanoic Acid	PFHpA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	PFOS	PFOS	0.0	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	DONA	DONA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	PFOA	PFOA	0.0	8.8	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0623-LETART-PT	LETART-PT		6/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluorononanoic Acid	PFNA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluoroundecanoic Acid	PFUnA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluorohexanoic Acid	PFHxA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0020	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluorotridecanoic Acid	PFTriA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	DONA	DONA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	PFOS	PFOS	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	Perfluorodecanoic Acid	PFDA	0.00	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	PFOA	PFOA	0.00340	3.4	Y	H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0723-LETART-PT	LETART-PT		7/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00200	2	N	U,H		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluorononanoic Acid	PFNA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluorohexanoic Acid	PFHxA	0.0	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	PFOS	PFOS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluoroheptanoic Acid	PFHpA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	Perfluorodecanoic Acid	PFDA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	PFOA	PFOA	0.01	7.5	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0823-LETART-PT	LETART-PT		8/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0923-LETART-PT	LETART-PT		9/19/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0923-LETART-PT	LETART-PT		9/19/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0923-LETART-PT	LETART-PT		9/19/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0923-LETART-PT	LETART-PT		9/19/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0923-LETART-PT	LETART-PT		9/19/2023	PFOS	PFOS	0.002	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0923-LETART-PT	LETART-PT		9/19/2023	DONA	DONA	0.0	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0923-LETART-PT	LETART-PT		9/19/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC0923-LETART-PT	LETART-PT		9/19/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC1023-LETART-PT	LETART-PT		10/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	DONA	DONA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	Perfluoroheptanoic Acid	PFHpA	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	Perfluorodecanoic Acid	PFDA	0.00	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	PFOA	PFOA	0.004	4.1	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1023-LETART-PT	LETART-PT		10/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	PFOA	PFOA	0.0092	9.2	Y			Liquid	FS	Drinking Water	38.8863869	-81.938957
GC1123-LETART-PT	LETART-PT		11/14/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	38.8863869	-81.938957
GC082118-LHWA-PT	LHWAPSD-PT		8/21/2018	PFOA	PFOA	7.1	7100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC090418-LHWA-PT	LHWAPSD-PT		9/4/2018	PFOA	PFOA	6.4	6400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC091718-LHWA-PT	LHWAPSD-PT		9/17/2018	PFOA	PFOA	6.8	6800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC100118-LHWA-PT	LHWAPSD-PT		10/1/2018	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC101518-LHWA-PT	LHWAPSD-PT		10/15/2018	PFOA	PFOA	7.1	7100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC101518A-LHWA-PT	LHWAPSD-PT		10/15/2018	Hfpo Dimer Acid	HFPO-DA	0.092	92	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC102918-LHWA-PT	LHWAPSD-PT		10/29/2018	PFOA	PFOA	7.7	7700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC111218-LHWA-PT	LHWAPSD-PT		11/12/2018	PFOA	PFOA	6.4	6400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112618-LHWA-PT	LHWAPSD-PT		11/26/2018	PFOA	PFOA	5.4	5400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC121018-LHWA-PT	LHWAPSD-PT		12/10/2018	PFOA	PFOA	5.6	5600	Y	H		Liquid	FS	Drinking Water	39.281	-81.6596
GC122718-LHWA-PT	LHWAPSD-PT		12/27/2018	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC010719-LHWA-PT	LHWAPSD-PT		1/7/2019	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC012119-LHWA-PT	LHWAPSD-PT		1/21/2019	PFOA	PFOA	7.3	7300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC012119A-LHWA-PT	LHWAPSD-PT		1/21/2019	Hfpo Dimer Acid	HFPO-DA	0.15	150	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC020419-LHWA-PT	LHWAPSD-PT		2/4/2019	PFOA	PFOA	6.8	6800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC021819-LHWA-PT	LHWAPSD-PT		2/18/2019	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC030419-LHWA-PT	LHWAPSD-PT		3/4/2019	PFOA	PFOA	8	8000	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC031819-LHWA-PT	LHWAPSD-PT		3/18/2019	PFOA	PFOA	7.6	7600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC040119-LHWA-PT	LHWAPSD-PT		4/1/2019	PFOA	PFOA	7.9	7900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041519-LHWA-PT	LHWAPSD-PT		4/15/2019	PFOA	PFOA	7.9	7900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041519A-LHWA-PT	LHWAPSD-PT		4/15/2019	Hfpo Dimer Acid	HFPO-DA	0.2	200	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC042919-LHWA-PT	LHWAPSD-PT		4/29/2019	PFOA	PFOA	6.4	6400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC042919A-LHWA-PT	LHWAPSD-PT		4/29/2019	Hfpo Dimer Acid	HFPO-DA	0.19	190	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC051319-LHWA-PT	LHWAPSD-PT		5/13/2019	PFOA	PFOA	4.9	4900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC051319A-LHWA-PT	LHWAPSD-PT		5/13/2019	Hfpo Dimer Acid	HFPO-DA	0.16	160	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052819-LHWA-PT	LHWAPSD-PT		5/28/2019	PFOA	PFOA	6.6	6600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052819A-LHWA-PT	LHWAPSD-PT		5/28/2019	Hfpo Dimer Acid	HFPO-DA	0.16	160	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC060719-LHWA-PT	LHWAPSD-PT		6/7/2019	PFOA	PFOA	6.4	6400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC060719A-LHWA-PT	LHWAPSD-PT		6/7/2019	Hfpo Dimer Acid	HFPO-DA	0.16	160	Y	H	J	Liquid	FS	Drinking Water	39.281	-81.6596
GC062419-LHWA-PT	LHWAPSD-PT		6/24/2019	PFOA	PFOA	5.9	5900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC062419A-LHWA-PT	LHWAPSD-PT		6/24/2019	Hfpo Dimer Acid	HFPO-DA	0.13	130	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070819-LHWA-PT	LHWAPSD-PT		7/8/2019	PFOA	PFOA	4.7	4700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070819A-LHWA-PT	LHWAPSD-PT		7/8/2019	Hfpo Dimer Acid	HFPO-DA	0.11	110	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC072219-LHWA-PT	LHWAPSD-PT		7/22/2019	PFOA	PFOA	5.4	5400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC072219A-LHWA-PT	LHWAPSD-PT		7/22/2019	Hfpo Dimer Acid	HFPO-DA	0.13	130	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC080519-LHWA-PT	LHWAPSD-PT		8/5/2019	PFOA	PFOA	5.9	5900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC080519A-LHWA-PT	LHWAPSD-PT		8/5/2019	Hfpo Dimer Acid	HFPO-DA	0.14	140	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC081919-LHWA-PT	LHWAPSD-PT		8/19/2019	PFOA	PFOA	6.1	6100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC081919A-LHWA-PT	LHWAPSD-PT		8/19/2019	Hfpo Dimer Acid	HFPO-DA	0.12	120	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC090319-LHWA-PT	LHWAPSD-PT		9/3/2019	PFOA	PFOA	6.3	6300	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC090319A-LHWA-PT	LHWAPSD-PT		9/3/2019	Hfpo Dimer Acid	HFPO-DA	0.22	220	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC091319-LHWA-PT	LHWAPSD-PT		9/13/2019	PFOA	PFOA	6.6	6600	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC091319A-LHWA-PT	LHWAPSD-PT		9/13/2019	Hfpo Dimer Acid	HFPO-DA	0.21	210	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC093019-LHWA-PT	LHWAPSD-PT		9/30/2019	PFOA	PFOA	5.7	5700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC093019A-LHWA-PT	LHWAPSD-PT		9/30/2019	Hfpo Dimer Acid	HFPO-DA	0.19	190	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC101419-LHWA-PT	LHWAPSD-PT		10/14/2019	PFOA	PFOA	6	6000	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC101419A-LHWA-PT	LHWAPSD-PT		10/14/2019	Hfpo Dimer Acid	HFPO-DA	0.19	190	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC102819-LHWA-PT	LHWAPSD-PT		10/28/2019	PFOA	PFOA	7.1	7100	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC102819A-LHWA-PT	LHWAPSD-PT		10/28/2019	Hfpo Dimer Acid	HFPO-DA	0.19	190	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC111119-LHWA-PT	LHWAPSD-PT		11/11/2019	PFOA	PFOA	6.1	6100	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC111119A-LHWA-PT	LHWAPSD-PT		11/11/2019	Hfpo Dimer Acid	HFPO-DA	0.15	150	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC112519-LHWA-PT	LHWAPSD-PT		11/25/2019	PFOA	PFOA	7.2	7200	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112519A-LHWA-PT	LHWAPSD-PT		11/25/2019	Hfpo Dimer Acid	HFPO-DA	0.22	220	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC120619-LHWA-PT	LHWAPSD-PT		12/6/2019	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC120619A-LHWA-PT	LHWAPSD-PT		12/6/2019	Hfpo Dimer Acid	HFPO-DA	0.21	210	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC121919-LHWA-PT	LHWAPSD-PT		12/19/2019	PFOA	PFOA	6.8	6800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC121919A-LHWA-PT	LHWAPSD-PT		12/19/2019	Hfpo Dimer Acid	HFPO-DA	0.17	170	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC010620-LHWA-PT	LHWAPSD-PT		1/6/2020	PFOA	PFOA	7	7000	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC010620A-LHWA-PT	LHWAPSD-PT		1/6/2020	Hfpo Dimer Acid	HFPO-DA	0.19	190	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC012020-LHWA-PT	LHWAPSD-PT		1/20/2020	PFOA	PFOA	6.3	6300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC012020A-LHWA-PT	LHWAPSD-PT		1/20/2020	Hfpo Dimer Acid	HFPO-DA	0.18	180	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC020320-LHWA-PT	LHWAPSD-PT		2/3/2020	PFOA	PFOA	6.6	6600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC020320A-LHWA-PT	LHWAPSD-PT		2/3/2020	Hfpo Dimer Acid	HFPO-DA	0.17	170	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC021720-LHWA-PT	LHWAPSD-PT		2/17/2020	PFOA	PFOA	5.8	5800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC021720A-LHWA-PT	LHWAPSD-PT		2/17/2020	Hfpo Dimer Acid	HFPO-DA	0.19	190	Y	*	J	Liquid	FS	Drinking Water	39.281	-81.6596
GC030220-LHWA-PT	LHWAPSD-PT		3/2/2020	PFOA	PFOA	6.6	6600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC030220A-LHWA-PT	LHWAPSD-PT		3/2/2020	Hfpo Dimer Acid	HFPO-DA	0.23	230	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC031620-LHWA-PT	LHWAPSD-PT		3/16/2020	PFOA	PFOA	6.9	6900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC031620A-LHWA-PT	LHWAPSD-PT		3/16/2020	Hfpo Dimer Acid	HFPO-DA	0.22	220	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC033020-LHWA-PT	LHWAPSD-PT		3/30/2020	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC033020A-LHWA-PT	LHWAPSD-PT		3/30/2020	Hfpo Dimer Acid	HFPO-DA	0.21	210	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041320-LHWA-PT	LHWAPSD-PT		4/13/2020	Hfpo Dimer Acid	HFPO-DA	0.28	280	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041320-LHWA-PT	LHWAPSD-PT		4/13/2020	PFOA	PFOA	6	6000	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC042720-LHWA-PT	LHWAPSD-PT		4/27/2020	PFOA	PFOA	5.2	5200	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC042720-LHWA-PT	LHWAPSD-PT		4/27/2020	Hfpo Dimer Acid	HFPO-DA	0.3	300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC051120-LHWA-PT	LHWAPSD-PT		5/11/2020	PFOA	PFOA	6.3	6300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC051120-LHWA-PT	LHWAPSD-PT		5/11/2020	Hfpo Dimer Acid	HFPO-DA	0.23	230	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052220-LHWA-PT	LHWAPSD-PT		5/22/2020	Hfpo Dimer Acid	HFPO-DA	0.26	260	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052220-LHWA-PT	LHWAPSD-PT		5/22/2020	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC060820-LHWA-PT	LHWAPSD-PT		6/8/2020	PFOA	PFOA	5.6	5600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC060820-LHWA-PT	LHWAPSD-PT		6/8/2020	Hfpo Dimer Acid	HFPO-DA	0.25	250	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC062420-LHWA-PT	LHWAPSD-PT		6/24/2020	Hfpo Dimer Acid	HFPO-DA	0.17	170	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC062420-LHWA-PT	LHWAPSD-PT		6/24/2020	PFOA	PFOA	4.7	4700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070620-LHWA-PT	LHWAPSD-PT		7/6/2020	Hfpo Dimer Acid	HFPO-DA	0.23	230	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070620-LHWA-PT	LHWAPSD-PT		7/6/2020	PFOA	PFOA	4.3	4300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC072020-LHWA-PT	LHWAPSD-PT		7/20/2020	Hfpo Dimer Acid	HFPO-DA	0.26	260	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC072020-LHWA-PT	LHWAPSD-PT		7/20/2020	PFOA	PFOA	7	7000	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC080320-LHWA-PT	LHWAPSD-PT		8/3/2020	PFOA	PFOA	6.2	6200	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC080320-LHWA-PT	LHWAPSD-PT		8/3/2020	Hfpo Dimer Acid	HFPO-DA	0.24	240	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC081720-LHWA-PT	LHWAPSD-PT		8/17/2020	Hfpo Dimer Acid	HFPO-DA	0.23	230	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC081720-LHWA-PT	LHWAPSD-PT		8/17/2020	PFOA	PFOA	5.9	5900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC083120-LHWA-PT	LHWAPSD-PT		8/31/2020	Hfpo Dimer Acid	HFPO-DA	0.28	280	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC083120-LHWA-PT	LHWAPSD-PT		8/31/2020	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC091420-LHWA-PT	LHWAPSD-PT		9/14/2020	PFOA	PFOA	7.5	7500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC091420-LHWA-PT	LHWAPSD-PT		9/14/2020	Hfpo Dimer Acid	HFPO-DA	0.27	270	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC092820-LHWA-PT	LHWAPSD-PT		9/28/2020	PFOA	PFOA	7	7000	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC092820-LHWA-PT	LHWAPSD-PT		9/28/2020	Hfpo Dimer Acid	HFPO-DA	0.29	290	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC101220-LHWA-PT	LHWAPSD-PT		10/12/2020	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC101220-LHWA-PT	LHWAPSD-PT		10/12/2020	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC102620-LHWA-PT	LHWAPSD-PT		10/26/2020	PFOA	PFOA	6.9	6900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC102620-LHWA-PT	LHWAPSD-PT		10/26/2020	Hfpo Dimer Acid	HFPO-DA	0.32	320	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC110920-LHWA-PT	LHWAPSD-PT		11/9/2020	Hfpo Dimer Acid	HFPO-DA	0.31	310	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC110920-LHWA-PT	LHWAPSD-PT		11/9/2020	PFOA	PFOA	7.6	7600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112320-LHWA-PT	LHWAPSD-PT		11/23/2020	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112320-LHWA-PT	LHWAPSD-PT		11/23/2020	PFOA	PFOA	7.1	7100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC120720-LHWA-PT	LHWAPSD-PT		12/7/2020	PFOA	PFOA	7	7000	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC120720-LHWA-PT	LHWAPSD-PT		12/7/2020	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC122120-LHWA-PT	LHWAPSD-PT		12/21/2020	PFOA	PFOA	6.1	6100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC122120-LHWA-PT	LHWAPSD-PT		12/21/2020	Hfpo Dimer Acid	HFPO-DA	0.24	240	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC010421-LHWA-PT	LHWAPSD-PT		1/4/2021	Hfpo Dimer Acid	HFPO-DA	0.3	300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC010421-LHWA-PT	LHWAPSD-PT		1/4/2021	PFOA	PFOA	7.4	7400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC011821-LHWA-PT	LHWAPSD-PT		1/18/2021	Hfpo Dimer Acid	HFPO-DA	0.28	280	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC011821-LHWA-PT	LHWAPSD-PT		1/18/2021	PFOA	PFOA	6.6	6600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC020121-LHWA-PT	LHWAPSD-PT		2/1/2021	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC020121-LHWA-PT	LHWAPSD-PT		2/1/2021	Hfpo Dimer Acid	HFPO-DA	0.31	310	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC021521-LHWA-PT	LHWAPSD-PT		2/15/2021	Hfpo Dimer Acid	HFPO-DA	0.31	310	Y	H,H3		Liquid	FS	Drinking Water	39.281	-81.6596
GC021521-LHWA-PT	LHWAPSD-PT		2/15/2021	PFOA	PFOA	6.7	6700	Y	H,H3		Liquid	FS	Drinking Water	39.281	-81.6596
GC030121-LHWA-PT	LHWAPSD-PT		3/1/2021	PFOA	PFOA	6.3	6300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC030121-LHWA-PT	LHWAPSD-PT		3/1/2021	Hfpo Dimer Acid	HFPO-DA	0.29	290	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC031221-LHWA-PT	LHWAPSD-PT		3/12/2021	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC031221-LHWA-PT	LHWAPSD-PT		3/12/2021	Hfpo Dimer Acid	HFPO-DA	0.27	270	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC032921-LHWA-PT	LHWAPSD-PT		3/29/2021	PFOA	PFOA	7.4	7400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC032921-LHWA-PT	LHWAPSD-PT		3/29/2021	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041221-LHWA-PT	LHWAPSD-PT		4/12/2021	PFOA	PFOA	6.8	6800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041221-LHWA-PT	LHWAPSD-PT		4/12/2021	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC042621-LHWA-PT	LHWAPSD-PT		4/26/2021	Hfpo Dimer Acid	HFPO-DA	0.26	260	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC042621-LHWA-PT	LHWAPSD-PT		4/26/2021	PFOA	PFOA	4.6	4600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC051021-LHWA-PT	LHWAPSD-PT		5/10/2021	PFOA	PFOA	4.5	4500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC051021-LHWA-PT	LHWAPSD-PT		5/10/2021	Hfpo Dimer Acid	HFPO-DA	0.23	230	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052421-LHWA-PT	LHWAPSD-PT		5/24/2021	PFOA	PFOA	3.6	3600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052421-LHWA-PT	LHWAPSD-PT		5/24/2021	Hfpo Dimer Acid	HFPO-DA	0.16	160	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC060721-LHWA-PT	LHWAPSD-PT		6/7/2021	Hfpo Dimer Acid	HFPO-DA	0.27	270	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC060721-LHWA-PT	LHWAPSD-PT		6/7/2021	PFOA	PFOA	6.9	6900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC062121-LHWA-PT	LHWAPSD-PT		6/21/2021	Hfpo Dimer Acid	HFPO-DA	0.28	280	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC062121-LHWA-PT	LHWAPSD-PT		6/21/2021	PFOA	PFOA	7.5	7500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070621-LHWA-PT	LHWAPSD-PT		7/6/2021	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070621-LHWA-PT	LHWAPSD-PT		7/6/2021	PFOA	PFOA	7.3	7300

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC102521-LHWA-PT	LHWAPSD-PT		10/25/2021	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC110821-LHWA-PT	LHWAPSD-PT		11/8/2021	PFOA	PFOA	7.3	7300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC110821-LHWA-PT	LHWAPSD-PT		11/8/2021	Hfpo Dimer Acid	HFPO-DA	0.38	380	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112221-LHWA-PT	LHWAPSD-PT		11/22/2021	Hfpo Dimer Acid	HFPO-DA	0.41	410	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112221-LHWA-PT	LHWAPSD-PT		11/22/2021	PFOA	PFOA	8.4	8400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC120621-LHWA-PT	LHWAPSD-PT		12/6/2021	Hfpo Dimer Acid	HFPO-DA	0.4	400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC120621-LHWA-PT	LHWAPSD-PT		12/6/2021	PFOA	PFOA	8.2	8200	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC122021-LHWA-PT	LHWAPSD-PT		12/20/2021	PFOA	PFOA	8.6	8600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC122021-LHWA-PT	LHWAPSD-PT		12/20/2021	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC010322-LHWA-PT	LHWAPSD-PT		1/3/2022	PFOA	PFOA	7.9	7900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC010322-LHWA-PT	LHWAPSD-PT		1/3/2022	Hfpo Dimer Acid	HFPO-DA	0.3	300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC011722-LHWA-PT	LHWAPSD-PT		1/17/2022	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC011722-LHWA-PT	LHWAPSD-PT		1/17/2022	PFOA	PFOA	7.9	7900	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC013122-LHWA-PT	LHWAPSD-PT		1/31/2022	Hfpo Dimer Acid	HFPO-DA	0.3	300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC013122-LHWA-PT	LHWAPSD-PT		1/31/2022	PFOA	PFOA	6.6	6600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC021422-LHWA-PT	LHWAPSD-PT		2/14/2022	Hfpo Dimer Acid	HFPO-DA	0.37	370	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC021422-LHWA-PT	LHWAPSD-PT		2/14/2022	PFOA	PFOA	7	7000	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC022822-LHWA-PT	LHWAPSD-PT		2/28/2022	Hfpo Dimer Acid	HFPO-DA	0.29	290	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC022822-LHWA-PT	LHWAPSD-PT		2/28/2022	PFOA	PFOA	6.4	6400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC031422-LHWA-PT	LHWAPSD-PT		3/14/2022	PFOA	PFOA	7.6	7600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC031422-LHWA-PT	LHWAPSD-PT		3/14/2022	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC032822-LHWA-PT	LHWAPSD-PT		3/28/2022	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC032822-LHWA-PT	LHWAPSD-PT		3/28/2022	PFOA	PFOA	6.4	6400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041122-LHWA-PT	LHWAPSD-PT		4/11/2022	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041122-LHWA-PT	LHWAPSD-PT		4/11/2022	PFOA	PFOA	7.2	7200	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC042522-LHWA-PT	LHWAPSD-PT		4/25/2022	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC042522-LHWA-PT	LHWAPSD-PT		4/25/2022	Hfpo Dimer Acid	HFPO-DA	0.38	380	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC050922-LHWA-PT	LHWAPSD-PT		5/9/2022	Hfpo Dimer Acid	HFPO-DA	0.4	400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC050922-LHWA-PT	LHWAPSD-PT		5/9/2022	PFOA	PFOA	7.5	7500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052322-LHWA-PT	LHWAPSD-PT		5/23/2022	Hfpo Dimer Acid	HFPO-DA	0.37	370	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052322-LHWA-PT	LHWAPSD-PT		5/23/2022	PFOA	PFOA	5.8	5800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC060622-LHWA-PT	LHWAPSD-PT		6/6/2022	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC060622-LHWA-PT	LHWAPSD-PT		6/6/2022	PFOA	PFOA	7.4	7400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC062022-LHWA-PT	LHWAPSD-PT		6/20/2022	Hfpo Dimer Acid	HFPO-DA	0.41	410	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC062022-LHWA-PT	LHWAPSD-PT		6/20/2022	PFOA	PFOA	7.1	7100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070122-LHWA-PT	LHWAPSD-PT		7/1/2022	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070122-LHWA-PT	LHWAPSD-PT		7/1/2022	Hfpo Dimer Acid	HFPO-DA	0.36	360	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC071822-LHWA-PT	LHWAPSD-PT		7/18/2022	Hfpo Dimer Acid	HFPO-DA	0.44	440	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC071822-LHWA-PT	LHWAPSD-PT		7/18/2022	PFOA	PFOA	8.2	8200	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC072922-LHWA-PT	LHWAPSD-PT		7/29/2022	PFOA	PFOA	8.4	8400	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC072922-LHWA-PT	LHWAPSD-PT		7/29/2022	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC081222-LHWA-PT	LHWAPSD-PT		8/12/2022	PFOA	PFOA	7.2	7200	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC081222-LHWA-PT	LHWAPSD-PT		8/12/2022	Hfpo Dimer Acid	HFPO-DA	0.37	370	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC082922-LHWA-PT	LHWAPSD-PT		8/29/2022	PFOA	PFOA	7.3	7300	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC082922-LHWA-PT	LHWAPSD-PT		8/29/2022	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC091222-LHWA-PT	LHWAPSD-PT		9/12/2022	PFOA	PFOA	7.3	7300	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC091222-LHWA-PT	LHWAPSD-PT		9/12/2022	Hfpo Dimer Acid	HFPO-DA	0.42	420	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC092622-LHWA-PT	LHWAPSD-PT		9/26/2022	PFOA	PFOA	6.8	6800	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC092622-LHWA-PT	LHWAPSD-PT		9/26/2022	Hfpo Dimer Acid	HFPO-DA	0.31	310	Y	*-	J	LIQUID	FS	Drinking Water	39.281	-81.6596
GC101022-LHWA-PT	LHWAPSD-PT		10/10/2022	Hfpo Dimer Acid	HFPO-DA	0.38	380	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC101022-LHWA-PT	LHWAPSD-PT		10/10/2022	PFOA	PFOA	7.1	7100	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC102422-LHWA-PT	LHWAPSD-PT		10/24/2022	PFOA	PFOA	7.6	7600	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC102422-LHWA-PT	LHWAPSD-PT		10/24/2022	Hfpo Dimer Acid	HFPO-DA	0.47	470	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC110722-LHWA-PT	LHWAPSD-PT		11/7/2022	Hfpo Dimer Acid	HFPO-DA	0.42	420	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC110722-LHWA-PT	LHWAPSD-PT		11/7/2022	PFOA	PFOA	6.7	6700	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC112122-LHWA-PT	LHWAPSD-PT		11/21/2022	Hfpo Dimer Acid	HFPO-DA	0.42	420	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC112122-LHWA-PT	LHWAPSD-PT		11/21/2022	PFOA	PFOA	6.9	6900	Y			LIQUID	FS	Drinking Water	39.281	-81.6596
GC120522-LHWA-PT	LHWAPSD-PT		12/5/2022	PFOA	PFOA	6.3	6300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC120522-LHWA-PT	LHWAPSD-PT		12/5/2022	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC121922-LHWA-PT	LHWAPSD-PT		12/19/2022	PFOA	PFOA	6.8	6800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC121922-LHWA-PT	LHWAPSD-PT		12/19/2022	Hfpo Dimer Acid	HFPO-DA	0.4	400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC010323-LHWA-PT	LHWAPSD-PT		1/3/2023	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC010323-LHWA-PT	LHWAPSD-PT		1/3/2023	Hfpo Dimer Acid	HFPO-DA	0.41	410	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC011623-LHWA-PT	LHWAPSD-PT		1/16/2023	Hfpo Dimer Acid	HFPO-DA	0.31	310	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC011623-LHWA-PT	LHWAPSD-PT		1/16/2023	PFOA	PFOA	6.1	6100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC013023-LHWA-PT	LHWAPSD-PT		1/30/2023	PFOA	PFOA	6.8	6800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC013023-LHWA-PT	LHWAPSD-PT		1/30/2023	Hfpo Dimer Acid	HFPO-DA	0.41	410	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC021323-LHWA-PT	LHWAPSD-PT		2/13/2023	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC021323-LHWA-PT	LHWAPSD-PT		2/13/2023	Hfpo Dimer Acid	HFPO-DA	0.39	390	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC022723-LHWA-PT	LHWAPSD-PT		2/27/2023	PFOA	PFOA	4.1	4100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC022723-LHWA-PT	LHWAPSD-PT		2/27/2023	Hfpo Dimer Acid	HFPO-DA	0.25	250	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC031323-LHWA-PT	LHWAPSD-PT		3/13/2023	Hfpo Dimer Acid	HFPO-DA	0.4	400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC031323-LHWA-PT	LHWAPSD-PT		3/13/2023	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluorodecanoic Acid	PFDA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	DONA	DONA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	PFOS	PFOS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluorotetradecanoic Acid	PFTeA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluorononanoic Acid	PFNA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluoroundecanoic Acid	PFUnA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluorododecanoic Acid	PFDoA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluorotridecanoic Acid	PFTriA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	PFOA	PFOA	6.3	6300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Hfpo Dimer Acid	HFPO-DA	0.23	230	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluoroheptanoic Acid	PFHpA	0.1	100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC032723-LHWA-PT	LHWAPSD-PT		3/27/2023	Perfluorohexanoic Acid	PFHxA	0.078	78	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	PFOA	PFOA	6.5	6500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Hfpo Dimer Acid	HFPO-DA	0.49	490	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluorohexanoic Acid	PFHxA	0.15	150	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluoroheptanoic Acid	PFHpA	0.22	220	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluorotridecanoic Acid	PFTriA	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluorododecanoic Acid	PFDoA	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluoroundecanoic Acid	PFUnA	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluorononanoic Acid	PFNA	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluorotetradecanoic Acid	PFTeA	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	PFOS	PFOS	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	DONA	DONA	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC041023-LHWA-PT	LHWAPSD-PT		4/10/2023	Perfluorodecanoic Acid	PFDA	0.0083	8.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Hfpo Dimer Acid	HFPO-DA	0.56	560	Y	*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	PFOA	PFOA	7.4	7400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluoroheptanoic Acid	PFHpA	0.18	180	Y	*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluorohexanoic Acid	PFHxA	0.13	130	Y	*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluorodecanoic Acid	PFDA	0.0091	9.1	N	U,*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	DONA	DONA	0.0091	9.1	N	U,*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	PFOS	PFOS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0091	9.1	N	U,*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluorononanoic Acid	PFNA	0.0091	9.1	N	U,*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0091	9.1	N	U,*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluorododecanoic Acid	PFDoA	0.0091	9.1	N	U,*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC042423-LHWA-PT	LHWAPSD-PT		4/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0091	9.1	N	U,*3		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	PFOA	PFOA	5.7	5700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Hfpo Dimer Acid	HFPO-DA	0.45	450	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluorohexanoic Acid	PFHxA	0.11	110	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluoroheptanoic Acid	PFHpA	0.15	150	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluorodecanoic Acid	PFDA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluorotridecanoic Acid	PFTriA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluorododecanoic Acid	PFDoA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluorononanoic Acid	PFNA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	PFOS	PFOS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC050823-LHWA-PT	LHWAPSD-PT		5/8/2023	DONA	DONA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	PFOA	PFOA	6.7	6700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	Hfpo Dimer Acid	HFPO-DA	0.47	470	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	Perfluoroheptanoic Acid	PFHpA	0.17	170	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	Perfluorodecanoic Acid	PFDA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	DONA	DONA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	PFOS	PFOS	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	Perfluorononanoic Acid	PFNA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023	Perfluorododecanoic Acid	PFDoA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC052223-LHWA-PT	LHWAPSD-PT		5/22/2023

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC060523-LHWA-PT	LHWAPSD-PT		6/5/2023	DONA	DONA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Hfpo Dimer Acid	HFPO-DA	0.56	560	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	PFOA	PFOA	6.1	6100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluoroheptanoic Acid	PFHpA	0.19	190	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluorohexanoic Acid	PFHxA	0.15	150	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluorodecanoic Acid	PFDA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	DONA	DONA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	PFOS	PFOS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluorotetradecanoic Acid	PFTeA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluorononanoic Acid	PFNA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluoroundecanoic Acid	PFUnA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluorododecanoic Acid	PFDoA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC061923-LHWA-PT	LHWAPSD-PT		6/19/2023	Perfluorotridecanoic Acid	PFTriA	0.0091	9.1	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Hfpo Dimer Acid	HFPO-DA	0.39	390	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	PFOA	PFOA	5.7	5700	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluorohexanoic Acid	PFHxA	0.1	100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluoroheptanoic Acid	PFHpA	0.13	130	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluorodecanoic Acid	PFDA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluorotridecanoic Acid	PFTriA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluorododecanoic Acid	PFDoA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluoroundecanoic Acid	PFUnA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluorononanoic Acid	PFNA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluorobutane Sulfonic Acid	PFBS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	Perfluorotetradecanoic Acid	PFTeA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	PFOS	PFOS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC070323-LHWA-PT	LHWAPSD-PT		7/3/2023	DONA	DONA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	PFOA	PFOA	6.4	6400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Hfpo Dimer Acid	HFPO-DA	0.64	640	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluoroheptanoic Acid	PFHpA	0.2	200	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluorohexanoic Acid	PFHxA	0.15	150	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluorodecanoic Acid	PFDA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	DONA	DONA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	PFOS	PFOS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluorononanoic Acid	PFNA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluoroundecanoic Acid	PFUnA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluorododecanoic Acid	PFDoA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC072023-LHWA-PT	LHWAPSD-PT		7/20/2023	Perfluorotridecanoic Acid	PFTriA	0.009	9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Hfpo Dimer Acid	HFPO-DA	0.5	500	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	PFOA	PFOA	6.1	6100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluoroheptanoic Acid	PFHpA	0.18	180	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluorohexanoic Acid	PFHxA	0.13	130	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluorodecanoic Acid	PFDA	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	DONA	DONA	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluorotetradecanoic Acid	PFTeA	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	PFOS	PFOS	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluorododecanoic Acid	PFDoA	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluoroundecanoic Acid	PFUnA	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluorononanoic Acid	PFNA	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC081423-LHWA-PT	LHWAPSD-PT		8/14/2023	Perfluorotridecanoic Acid	PFTriA	0.0082	8.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	PFOA	PFOA	6.8	6800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluorodecanoic Acid	PFDA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	DONA	DONA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	PFOS	PFOS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluorononanoic Acid	PFNA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluorododecanoic Acid	PFDoA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC082823-LHWA-PT	LHWAPSD-PT		8/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	PFOA	PFOA	6	6000	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Hfpo Dimer Acid	HFPO-DA	0.42	420	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluoroheptanoic Acid	PFHpA	0.17	170	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluorodecanoic Acid	PFDA	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluorotridecanoic Acid	PFTriA	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluorododecanoic Acid	PFDoA	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluoroundecanoic Acid	PFUnA	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluorononanoic Acid	PFNA	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	Perfluorotetradecanoic Acid	PFTeA	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	PFOS	PFOS	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC090823-LHWA-PT	LHWAPSD-PT		9/8/2023	DONA	DONA	0.0097	9.7	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	PFOA	PFOA	4.1	4100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Hfpo Dimer Acid	HFPO-DA	0.33	330	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluoroheptanoic Acid	PFHpA	0.1	100	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluorohexanoic Acid	PFHxA	0.074	74	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluorodecanoic Acid	PFDA	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	DONA	DONA	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	PFOS	PFOS	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluorononanoic Acid	PFNA	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluorododecanoic Acid	PFDoA	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC092223-LHWA-PT	LHWAPSD-PT		9/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0092	9.2	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	PFOA	PFOA	5.4	5400	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluorohexanoic Acid	PFHxA	0.11	110	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluorodecanoic Acid	PFDA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluorotridecanoic Acid	PFTriA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluorododecanoic Acid	PFDoA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluoroundecanoic Acid	PFUnA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluorononanoic Acid	PFNA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	DONA	DONA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	Perfluorotetradecanoic Acid	PFTeA	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC100923-LHWA-PT	LHWAPSD-PT		10/9/2023	PFOS	PFOS	0.0096	9.6	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPSD-PT		10/23/2023	Hfpo Dimer Acid	HFPO-DA	0.46	460	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPSD-PT		10/23/2023	PFOA	PFOA	7.3	7300	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPSD-PT		10/23/2023	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPSD-PT		10/23/2023	Perfluorohexanoic Acid	PFHxA	0.11	110	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPSD-PT		10/23/2023	Perfluorodecanoic Acid	PFDA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPSD-PT		10/23/2023	DONA	DONA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPSD-PT		10/23/2023	PFOS	PFOS	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPSD-PT		10/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.0095	9.5	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPSD-PT		10/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0095	9.5	N	U,*-	UJ	Liquid	FS	Drinking Water	39.281	-81.6596
GC102323-LHWA-PT	LHWAPS

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC110623-LHWA-PT	LHWAPSD-PT		11/6/2023	DONA	DONA	0.0089	8.9	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	DONA	DONA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Hfpo Dimer Acid	HFPO-DA	0.46	460	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluorodecanoic Acid	PFDA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluorododecanoic Acid	PFDoA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluoroheptanoic Acid	PFHpA	0.16	160	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluorohexanoic Acid	PFHxA	0.12	120	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluorononanoic Acid	PFNA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluorotridecanoic Acid	PFTriA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	Perfluoroundecanoic Acid	PFUnA	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	PFOA	PFOA	5.8	5800	Y			Liquid	FS	Drinking Water	39.281	-81.6596
GC112023-LHWA-PT	LHWAPSD-PT		11/20/2023	PFOS	PFOS	0.0093	9.3	N	U		Liquid	FS	Drinking Water	39.281	-81.6596
GC818-LPSD-PT	LPSD-PT		8/21/2018	PFOA	PFOA	0.83	830	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC918-LPSD-PT	LPSD-PT		9/19/2018	PFOA	PFOA	0.930	930	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1018-LPSD-PT	LPSD-PT		10/22/2018	PFOA	PFOA	0.97	970	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1118-LPSD-PT	LPSD-PT		11/14/2018	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1218-LPSD-PT	LPSD-PT		12/17/2018	PFOA	PFOA	0.8	770	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0119-LPSD-PT	LPSD-PT		1/24/2019	PFOA	PFOA	1.10	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0219-LPSD-PT	LPSD-PT		2/18/2019	PFOA	PFOA	1.10	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0319-LPSD-PT	LPSD-PT		3/19/2019	PFOA	PFOA	1.2	1200	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0419-LPSD-PT	LPSD-PT		4/16/2019	PFOA	PFOA	1.30	1300	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0519-LPSD-PT	LPSD-PT		5/20/2019	PFOA	PFOA	0.8	830	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0619-LPSD-PT	LPSD-PT		6/18/2019	PFOA	PFOA	0.770	770	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0719-LPSD-PT	LPSD-PT		7/22/2019	PFOA	PFOA	1.400	1400	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0819-LPSD-PT	LPSD-PT		8/15/2019	PFOA	PFOA	1.20	1200	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0919-LPSD-PT	LPSD-PT		9/23/2019	PFOA	PFOA	1.4	1400	Y			LIQUID	FS	Drinking Water	39.2372208	-81.686462
GC1019-LPSD-PT	LPSD-PT		10/21/2019	PFOA	PFOA	1.0	1000	Y			LIQUID	FS	Drinking Water	39.2372208	-81.686462
GC1119-LPSD-PT	LPSD-PT		11/18/2019	PFOA	PFOA	0.99	990	Y			LIQUID	FS	Drinking Water	39.2372208	-81.686462
GC1219-LPSD-PT	LPSD-PT		12/16/2019	PFOA	PFOA	0.9	910	Y			LIQUID	FS	Drinking Water	39.2372208	-81.686462
GC0120-LPSD-PT	LPSD-PT		1/21/2020	PFOA	PFOA	0.920	920	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0220-LPSD-PT	LPSD-PT		2/21/2020	PFOA	PFOA	1.0	980	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0320-LPSD-PT	LPSD-PT		3/16/2020	PFOA	PFOA	0.960	960	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0420-LPSD-PT	LPSD-PT		4/20/2020	PFOA	PFOA	0.8500	850	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0520-LPSD-PT	LPSD-PT		5/20/2020	PFOA	PFOA	0.7500	750	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0620-LPSD-PT	LPSD-PT		6/22/2020	PFOA	PFOA	1.10	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0720-LPSD-PT	LPSD-PT		7/9/2020	PFOA	PFOA	0.89	890	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0820-LPSD-PT	LPSD-PT		8/17/2020	PFOA	PFOA	1.100	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0920-LPSD-PT	LPSD-PT		9/21/2020	PFOA	PFOA	1.400	1400	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1020-LPSD-PT	LPSD-PT		10/20/2020	PFOA	PFOA	1.50000	1500	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1120-LPSD-PT	LPSD-PT		11/16/2020	PFOA	PFOA	1.100	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1220-LPSD-PT	LPSD-PT		12/18/2020	PFOA	PFOA	1.10	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0121-LPSD-PT	LPSD-PT		1/19/2021	PFOA	PFOA	0.92	920	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0221-LPSD-PT	LPSD-PT		2/16/2021	PFOA	PFOA	0.940	940	Y	H		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0321-LPSD-PT	LPSD-PT		3/15/2021	PFOA	PFOA	1.3000	1300	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0421-LPSD-PT	LPSD-PT		4/19/2021	PFOA	PFOA	1.3000	1300	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0521-LPSD-PT	LPSD-PT		5/18/2021	PFOA	PFOA	1.300	1300	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0621-LPSD-PT	LPSD-PT		6/14/2021	PFOA	PFOA	1.0000	1000	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0721-LPSD-PT	LPSD-PT		7/19/2021	PFOA	PFOA	1.0000	1000	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0821-LPSD-PT	LPSD-PT		8/16/2021	PFOA	PFOA	1.30	1300	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0921-LPSD-PT	LPSD-PT		9/20/2021	PFOA	PFOA	1.4000	1400	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1021-LPSD-PT	LPSD-PT		10/12/2021	PFOA	PFOA	1.2000	1200	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1121-LPSD-PT	LPSD-PT		11/19/2021	PFOA	PFOA	1.3	1300	Y	H		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1221-LPSD-PT	LPSD-PT		12/13/2021	PFOA	PFOA	1.000	1000	Y	H		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0122-LPSD-PT	LPSD-PT		1/18/2022	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0222-LPSD-PT	LPSD-PT		2/16/2022	PFOA	PFOA	0.960	960	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0322-LPSD-PT	LPSD-PT		3/14/2022	PFOA	PFOA	0.700	700	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0422-LPSD-PT	LPSD-PT		4/18/2022	PFOA	PFOA	1.000	1000	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0522-LPSD-PT	LPSD-PT		5/16/2022	PFOA	PFOA	1.200	1200	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0622-LPSD-PT	LPSD-PT		6/21/2022	PFOA	PFOA	1.3000	1300	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0722-LPSD-PT	LPSD-PT		7/18/2022	PFOA	PFOA	1.300	1300	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0822-LPSD-PT	LPSD-PT		8/15/2022	PFOA	PFOA	1.3	1300	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0922-LPSD-PT	LPSD-PT		9/19/2022	PFOA	PFOA	1.1	1100	Y	H		LIQUID	FS	Drinking Water	39.2372208	-81.686462
GC1022-LPSD-PT	LPSD-PT		10/19/2022	PFOA	PFOA	1.500	1500	Y			LIQUID	FS	Drinking Water	39.2372208	-81.686462
GC1122-LPSD-PT	LPSD-PT		11/14/2022	PFOA	PFOA	1.000	1000	Y	H		LIQUID	FS	Drinking Water	39.2372208	-81.686462
GC1222-LPSD-PT	LPSD-PT		12/19/2022	PFOA	PFOA	1.800	1800	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC123-LPSD-PT	LPSD-PT		1/17/2023	PFOA	PFOA	1.100	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0223-LPSD-PT	LPSD-PT		2/21/2023	PFOA	PFOA	0.990	990	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluorohexanoic Acid	PFHxA	0.0	28	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0052	5.2	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	DONA	DONA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00	4.1	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluoroheptanoic Acid	PFHpA	0.039	39	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Perfluorodecanoic Acid	PFDA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	Hfpo Dimer Acid	HFPO-DA	0.0	31	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	PFOA	PFOA	0.900	900	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0323-LPSD-PT	LPSD-PT		3/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Hfpo Dimer Acid	HFPO-DA	0.035	35	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluorodecanoic Acid	PFDA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluoroheptanoic Acid	PFHpA	0.042	42	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00	4.5	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	PFOS	PFOS	0.002	1.6	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	DONA	DONA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.005	4.8	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluorohexanoic Acid	PFHxA	0.032	32	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	Perfluorononanoic Acid	PFNA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	PFOA	PFOA	1.100	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0423-LPSD-PT	LPSD-PT		4/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluorohexanoic Acid	PFHxA	0.0	26	Y		J	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00	3.2	Y		J	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluorotridecanoic Acid	PFTriA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	DONA	DONA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	PFOS	PFOS	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0032	3.2	Y		J	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluoroheptanoic Acid	PFHpA	0.0350	35	Y		J	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	Hfpo Dimer Acid	HFPO-DA	0.0360	36	Y		J	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	PFOA	PFOA	0.9700	970	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0523-LPSD-PT	LPSD-PT		5/25/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Hfpo Dimer Acid	HFPO-DA	0.04	40	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluorodecanoic Acid	PFDA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluoroheptanoic Acid	PFHpA	0.041	41	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0042	4.2	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	PFOS	PFOS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00	4.9	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluorohexanoic Acid	PFHxA	0.03	29	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	PFOA	PFOA	1.100	1100	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0623-LPSD-PT	LPSD-PT		6/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Hfpo Dimer Acid	HFPO-DA	0.033	33	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluoroheptanoic Acid	PFHpA	0.040	40	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.004	3.9	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	PFOS	PFOS	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	DONA	DONA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.005	4.8	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluorohexanoic Acid	PFHxA	0.0	29	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0723-LPSD-PT	LPSD-PT		7/24/2023	Perfluorononanoic Acid	PFNA	0.0	1.8	N	U	

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC0823-LPSD-PT	LPSD-PT		8/22/2023	PFOA	PFOA	1.00	1000	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0823-LPSD-PT	LPSD-PT		8/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluorononanoic Acid	PFNA	0.00180	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluorohexanoic Acid	PFHxA	0.03200	32	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00180	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00530	5.3	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	DONA	DONA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0044	4.4	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluoroheptanoic Acid	PFHpA	0.042	42	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0470	47	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	PFOA	PFOA	1.2000	1200	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC0923-LPSD-PT	LPSD-PT		9/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluorodecanoic Acid	PFDA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Hfpo Dimer Acid	HFPO-DA	0.037	37	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluoroheptanoic Acid	PFHpA	0.0350	35	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0042	4.2	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.006	6.1	Y	H		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluorohexanoic Acid	PFHxA	0	25	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	PFOA	PFOA	1	870	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1023-LPSD-PT	LPSD-PT		10/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	DONA	DONA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Hfpo Dimer Acid	HFPO-DA	0.04	35	Y	*-	J	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.004	3.6	Y	*-	J	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluorodecanoic Acid	PFDA	0	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.9	N	U,*-	UJ	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluoroheptanoic Acid	PFHpA	0.0270	27	Y	*-	J	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00	3.6	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluorohexanoic Acid	PFHxA	0.02	20	Y	*-	J	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.9	N	U,*-	UJ	Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	PFOA	PFOA	0.9800	980	Y			Liquid	FS	Drinking Water	39.2372208	-81.686462
GC1123-LPSD-PT	LPSD-PT		11/13/2023	PFOS	PFOS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.2372208	-81.686462
4Q19-PPSDPT	PPSDPT		11/19/2019	PFOA	PFOA	0.04	42	Y			LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q20-PPSDPT	PPSDPT		2/20/2020	PFOA	PFOA	0.045	45	Y			Liquid	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	DONA	DONA	0.002	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Hfpo Dimer Acid	HFPO-DA	0.002	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0022	2.2	Y			LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluorodecanoic Acid	PFDA	0.00200	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluorododecanoic Acid	PFDoA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0020	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.003	2.5	Y			LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluorohexanoic Acid	PFHxA	0.003	2.5	Y			LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluorononanoic Acid	PFNA	0.002	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0	2	N	U		LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	PFOA	PFOA	0.072	72	Y			LIQUID	FS	Drinking Water	39.292912	-81.55928
1Q23-PPSDPT	PPSDPT		2/24/2023	PFOS	PFOS	0.004	4.1	Y			LIQUID	FS	Drinking Water	39.292912	-81.55928
GC090518A-PT	PT		9/5/2018	Hfpo Dimer Acid	HFPO-DA	1.0	990	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC090518-PT	PT		9/5/2018	PFOA	PFOA	0.78	780	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC091818A-PT	PT		9/18/2018	Hfpo Dimer Acid	HFPO-DA	0.7	650	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC091818-PT	PT		9/18/2018	PFOA	PFOA	0.6	620	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC100118A-PT	PT		10/1/2018	Hfpo Dimer Acid	HFPO-DA	0.8	800	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC100118-PT	PT		10/1/2018	PFOA	PFOA	0.85	850	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC102518A-PT	PT		10/25/2018	Hfpo Dimer Acid	HFPO-DA	0.9	890	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC102518-PT	PT		10/25/2018	PFOA	PFOA	0.74	740	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC110518A-PT	PT		11/5/2018	Hfpo Dimer Acid	HFPO-DA	0.97	970	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC110518-PT	PT		11/5/2018	PFOA	PFOA	0.8	840	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC112618A-PT	PT		11/26/2018	Hfpo Dimer Acid	HFPO-DA	0.790	790	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC112618-PT	PT		11/26/2018	PFOA	PFOA	0.740	740	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC121118A-PT	PT		12/11/2018	Hfpo Dimer Acid	HFPO-DA	0.73	730	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC121118-PT	PT		12/11/2018	PFOA	PFOA	0.5400	540	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC122718A-PT	PT		12/27/2018	Hfpo Dimer Acid	HFPO-DA	0.52000	520	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC122718-PT	PT		12/27/2018	PFOA	PFOA	0.35	350	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC010819A-PT	PT		1/8/2019	Hfpo Dimer Acid	HFPO-DA	0.58	580	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC010819-PT	PT		1/8/2019	PFOA	PFOA	0.64	640	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC012119A-PT	PT		1/21/2019	Hfpo Dimer Acid	HFPO-DA	0.58	580	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC012119-PT	PT		1/21/2019	PFOA	PFOA	0.6	620	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC020819A-PT	PT		2/8/2019	Hfpo Dimer Acid	HFPO-DA	0.6	610	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC020819-PT	PT		2/8/2019	PFOA	PFOA	0.63	630	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC021919A-PT	PT		2/19/2019	Hfpo Dimer Acid	HFPO-DA	0.43	430	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC021919-PT	PT		2/19/2019	PFOA	PFOA	0.49000	490	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC030419A-PT	PT		3/4/2019	Hfpo Dimer Acid	HFPO-DA	0.52	520	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC030419-PT	PT		3/4/2019	PFOA	PFOA	0.67	670	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC031819A-PT	PT		3/18/2019	Hfpo Dimer Acid	HFPO-DA	0.55000	550	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC031819-PT	PT		3/18/2019	PFOA	PFOA	0.7	740	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC040219A-PT	PT		4/2/2019	Hfpo Dimer Acid	HFPO-DA	0.8	800	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC040219-PT	PT		4/2/2019	PFOA	PFOA	0.8	780	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC041719A-PT	PT		4/17/2019	Hfpo Dimer Acid	HFPO-DA	0.8	820	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC041719-PT	PT		4/17/2019	PFOA	PFOA	0.8	770	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC051519A-PT	PT		5/15/2019	Hfpo Dimer Acid	HFPO-DA	0.7	680	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC051519-PT	PT		5/15/2019	PFOA	PFOA	0.8	790	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC052819A-PT	PT		5/28/2019	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC052819-PT	PT		5/28/2019	PFOA	PFOA	0.92	920	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC061719A-PT	PT		6/17/2019	Hfpo Dimer Acid	HFPO-DA	1.3	1300	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC061719-PT	PT		6/17/2019	PFOA	PFOA	0.85	850	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC062519A-PT	PT		6/25/2019	Hfpo Dimer Acid	HFPO-DA	1.000	1000	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC062519-PT	PT		6/25/2019	PFOA	PFOA	0.730	730	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC071219A-PT	PT		7/12/2019	Hfpo Dimer Acid	HFPO-DA	1.1	1100	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC071219-PT	PT		7/12/2019	PFOA	PFOA	0.9	860	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC072319A-PT	PT		7/23/2019	Hfpo Dimer Acid	HFPO-DA	1.000	1000	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC072319-PT	PT		7/23/2019	PFOA	PFOA	1.1	1100	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC080919A-PT	PT		8/9/2019	Hfpo Dimer Acid	HFPO-DA	0.88	880	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC080919-PT	PT		8/9/2019	PFOA	PFOA	1.0	960	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC081919A-PT	PT		8/19/2019	Hfpo Dimer Acid	HFPO-DA	0.830	830	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC081919-PT	PT		8/19/2019	PFOA	PFOA	0.940	940	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC091319A-PT	PT		9/13/2019	Hfpo Dimer Acid	HFPO-DA	1.20	1200	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC091319-PT	PT		9/13/2019	PFOA	PFOA	0.880	880	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC092319A-PT	PT		9/23/2019	Hfpo Dimer Acid	HFPO-DA	1.100	1100	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC092319-PT	PT		9/23/2019	PFOA	PFOA	0.8	820	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC101619A-PT	PT		10/16/2019	Hfpo Dimer Acid	HFPO-DA	0.6	620	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC101619-PT	PT		10/16/2019	PFOA	PFOA	0.79	790	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC102919A-PT	PT		10/29/2019	Hfpo Dimer Acid	HFPO-DA	0.0	10	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC102919-PT	PT		10/29/2019	PFOA	PFOA	0.2	170	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC111519A-PT	PT		11/15/2019	Hfpo Dimer Acid	HFPO-DA	0.3	280	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC111519-PT	PT		11/15/2019	PFOA	PFOA	0.7	660	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC112519A-PT	PT		11/25/2019	Hfpo Dimer Acid	HFPO-DA	0.330	330	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC112519-PT	PT		11/25/2019	PFOA	PFOA	0.950	950	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC121119A-PT	PT		12/11/2019	Hfpo Dimer Acid	HFPO-DA	0.27	270	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC121119-PT	PT		12/11/2019	PFOA	PFOA	0.670	670	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC122619A-PT	PT		12/26/2019	Hfpo Dimer Acid	HFPO-DA	0.250	250	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC122619-PT	PT		12/26/2019	PFOA	PFOA	0.64	640	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC011020A-PT	PT		1/10/2020	Hfpo Dimer Acid	HFPO-DA	0.200	200	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC011020-PT	PT		1/10/2020	PFOA	PFOA	0.590	590	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC012120A-PT	PT		1/21/2020	Hfpo Dimer Acid	HFPO-DA	0.190	190	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC012120-PT	PT		1/21/2020	PFOA	PFOA	0.500	500	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC020420A-PT	PT		2/4/2020	Hfpo Dimer Acid	HFPO-DA	0.180	180	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC020420-PT	PT		2/4/2020	PFOA	PFOA	0.520	520	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC022120A-PT	PT		2/21/2020	Hfpo Dimer Acid	HFPO-DA	0.250	250	Y	*	J	Liquid	FS	Drinking Water	39.27175	-81.6566
GC022120-PT	PT		2/21/2020	PFOA	PFOA	0.4	390	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC030320A-PT	PT		3/3/2020	Hfpo Dimer Acid	HFPO-DA	0.310	310	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC030320-PT	PT		3/3/2020	PFOA	PFOA	0.500	500	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC031720A-PT	PT		3/17/2020	Hfpo Dimer Acid	HFPO-DA	0.3	320	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC031720-PT	PT		3/17/2020	PFOA	PFOA	0.5	450	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC041620-PT	PT		4/16/2020	Hfpo Dimer Acid	HFPO-DA	0.4	410	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC041620-PT	PT		4/16/2020	PFOA	PFOA	0.4300	430	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC043020-PT	PT		4/30/2020	Hfpo Dimer Acid	HFPO-DA	0.360	360	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC043020-PT	PT		4/30/2020	PFOA	PFOA	0.520	520	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC052120-PT	PT		5/21/2020	Hfpo Dimer Acid	HFPO-DA	0.480	480	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC052120-PT	PT		5/21/2020	PFOA	PFOA	0.6300	630	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC062320-PT	PT		6/23/2020	Hfpo Dimer Acid	HFPO-DA	1.00	1000	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC062320-PT	PT		6/23/2020	PFOA	PFOA	0.8	810	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC072220-PT	PT		7/22/2020	Hfpo Dimer Acid	HFPO-DA	1.3000	1300	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC072220-PT	PT		7/22/2020	PFOA	PFOA	0.9800	980	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC081820-PT	PT		8/18/2020	Hfpo Dimer Acid	HFPO-DA	0.950	950	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC081820-PT	PT		8/18/2020	PFOA	PFOA	0.840	840	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC092220-PT	PT		9/22/2020	Hfpo Dimer Acid	HFPO-DA	0.62000	620	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC092220-PT	PT		9/22/2020	PFOA	PFOA	0.7800	780	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC102220-PT	PT		10/22/2020	Hfpo Dimer Acid	HFPO-DA	0.4200	420	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC102220-PT	PT		10/22/2020	PFOA	PFOA	0.690	690	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC111820-PT	PT		11/18/2020	Hfpo Dimer Acid	HFPO-DA	0.5200	520	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC111820-PT	PT		11/18/2020	PFOA	PFOA	0.8000	800	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC121520-PT	PT		12/15/2020	Hfpo Dimer Acid	HFPO-DA	0.4200	420	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC121520-PT	PT		12/15/2020	PFOA	PFOA	0.7400	740	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC011921-PT	PT		1/19/2021	Hfpo Dimer Acid	HFPO-DA	0.420	420	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC011921-PT	PT

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC052021-PT	PT		5/20/2021	Hfpo Dimer Acid	HFPO-DA	0.640	640	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC052021-PT	PT		5/20/2021	PFOA	PFOA	0.7500	750	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC061621-PT	PT		6/16/2021	Hfpo Dimer Acid	HFPO-DA	1.300	1300	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC061621-PT	PT		6/16/2021	PFOA	PFOA	1.1000	1100	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC072121-PT	PT		7/21/2021	Hfpo Dimer Acid	HFPO-DA	1.100	1100	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC072121-PT	PT		7/21/2021	PFOA	PFOA	0.870	870	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC081721-PT	PT		8/17/2021	Hfpo Dimer Acid	HFPO-DA	1.200	1200	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC081721-PT	PT		8/17/2021	PFOA	PFOA	0.9300	930	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC092121-PT	PT		9/21/2021	Hfpo Dimer Acid	HFPO-DA	1.1000	1100	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC092121-PT	PT		9/21/2021	PFOA	PFOA	0.8900	890	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC101821-PT	PT		10/18/2021	Hfpo Dimer Acid	HFPO-DA	0.9	850	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC101821-PT	PT		10/18/2021	PFOA	PFOA	0.8	810	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC111521-PT	PT		11/15/2021	Hfpo Dimer Acid	HFPO-DA	0.440	440	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC111521-PT	PT		11/15/2021	PFOA	PFOA	0.710	710	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC121321-PT	PT		12/13/2021	Hfpo Dimer Acid	HFPO-DA	0.810	810	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC121321-PT	PT		12/13/2021	PFOA	PFOA	0.840	840	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC12022-PT	PT		1/20/2022	Hfpo Dimer Acid	HFPO-DA	0.6	560	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC12022-PT	PT		1/20/2022	PFOA	PFOA	0.7	700	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC21822-PT	PT		2/18/2022	Hfpo Dimer Acid	HFPO-DA	0.650	650	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC21822-PT	PT		2/18/2022	PFOA	PFOA	0.730	730	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC31822-PT	PT		3/18/2022	Hfpo Dimer Acid	HFPO-DA	1.200	1200	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC31822-PT	PT		3/18/2022	PFOA	PFOA	0.770	770	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC41922-PT	PT		4/19/2022	Hfpo Dimer Acid	HFPO-DA	1.300	1300	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC41922-PT	PT		4/19/2022	PFOA	PFOA	0.790	790	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC51722-PT	PT		5/17/2022	Hfpo Dimer Acid	HFPO-DA	1.900	1900	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC51722-PT	PT		5/17/2022	PFOA	PFOA	0.870	870	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC62222-PT	PT		6/22/2022	Hfpo Dimer Acid	HFPO-DA	1.500	1500	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC62222-PT	PT		6/22/2022	PFOA	PFOA	0.900	900	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC71822-PT	PT		7/18/2022	Hfpo Dimer Acid	HFPO-DA	0.920	920	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC71822-PT	PT		7/18/2022	PFOA	PFOA	0.590	590	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC81522-PT	PT		8/15/2022	Hfpo Dimer Acid	HFPO-DA	1.500	1500	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC81522-PT	PT		8/15/2022	PFOA	PFOA	0.850	850	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC91922-PT	PT		9/19/2022	Hfpo Dimer Acid	HFPO-DA	0.760	760	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC91922-PT	PT		9/19/2022	PFOA	PFOA	0.680	680	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC101922-PT	PT		10/19/2022	Hfpo Dimer Acid	HFPO-DA	0.490	490	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC101922-PT	PT		10/19/2022	PFOA	PFOA	0.6	610	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC111422-PT	PT		11/14/2022	Hfpo Dimer Acid	HFPO-DA	0.390	390	Y	H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC111422-PT	PT		11/14/2022	PFOA	PFOA	0.610	610	Y	H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC121922-PT	PT		12/19/2022	Hfpo Dimer Acid	HFPO-DA	0.240	240	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC121922-PT	PT		12/19/2022	PFOA	PFOA	0.590	590	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC11623-PT	PT		1/16/2023	Hfpo Dimer Acid	HFPO-DA	0.22000	220	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC11623-PT	PT		1/16/2023	PFOA	PFOA	0.490	490	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC22123-PT	PT		2/21/2023	Hfpo Dimer Acid	HFPO-DA	0.150	150	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC22123-PT	PT		2/21/2023	PFOA	PFOA	0.420	420	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluorohexanoic Acid	PFHxA	0.0	4.6	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	DONA	DONA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	PFOS	PFOS	0.004	3.6	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.003	3.1	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluoroheptanoic Acid	PFHpA	0.005	5.4	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Perfluorodecanoic Acid	PFDA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	Hfpo Dimer Acid	HFPO-DA	0.140	140	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	PFOA	PFOA	0.380	380	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC32023-PT	PT		3/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Hfpo Dimer Acid	HFPO-DA	0.1700	170	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluoroheptanoic Acid	PFHpA	0.005	4.6	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00250	2.5	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	PFOS	PFOS	0.005	4.5	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	DONA	DONA	0.00180	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluorohexanoic Acid	PFHxA	0.005	4.5	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	PFOA	PFOA	0.29	290	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC41723-PT	PT		4/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Hfpo Dimer Acid	HFPO-DA	0.150	150	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluorodecanoic Acid	PFDA	0.0	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluoroheptanoic Acid	PFHpA	0.0032	3.2	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0027	2.7	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	PFOS	PFOS	0.0034	3.4	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	DONA	DONA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00160	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluorohexanoic Acid	PFHxA	0.004	4.2	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	PFOA	PFOA	0.23000	230	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC52223-PT	PT		5/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Hfpo Dimer Acid	HFPO-DA	0.18	180	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluoroheptanoic Acid	PFHpA	0.004	3.9	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.003	2.7	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	PFOS	PFOS	0.00420	4.2	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	DONA	DONA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluorohexanoic Acid	PFHxA	0.0051	5.1	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	PFOA	PFOA	0.3	280	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC62123-PT	PT		6/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Hfpo Dimer Acid	HFPO-DA	0.130	130	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0	4.3	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	PFOS	PFOS	0.0031	3.1	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluorohexanoic Acid	PFHxA	0.004	4.4	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	PFOA	PFOA	0.3	280	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC723-PT	PT		7/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Hfpo Dimer Acid	HFPO-DA	0.0940	94	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0	3.8	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0023	2.3	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	PFOS	PFOS	0.0036	3.6	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	DONA	DONA	0.00180	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00180	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluorotridecanoic Acid	PFTriA	0.00180	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00180	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00180	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluorohexanoic Acid	PFHxA	0.00	4.1	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	PFOA	PFOA	0.2600	260	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC823-PT	PT		8/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluorononanoic Acid	PFNA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluoroundecanoic Acid	PFUnA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluorohexanoic Acid	PFHxA	0.00360	3.6	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	PFOS	PFOS	0.004	3.8	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0028	2.8	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0031	3.1	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0830	83	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	PFOA	PFOA	0.2400	240	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC923-PT	PT		9/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	Perfluorodecanoic Acid	PFDA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	Hfpo Dimer Acid	HFPO-DA	0.0760	76	Y	H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	Perfluoroheptanoic Acid	PFHpA	0.003	2.7	Y	H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0024	2.4	Y	H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	PFOS	PFOS	0.0036	3.6	Y	H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	DONA	DONA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	39.27175

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC1023-PT	PT		10/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	Perfluorododecanoic Acid	PFDoA	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	Perfluorohexanoic Acid	PFHxA	0.00	2.8	Y	H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	Perfluoroundecanoic Acid	PFUnA	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	Perfluorononanoic Acid	PFNA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	PFOA	PFOA	0.180	180	Y	H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1023-PT	PT		10/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Hfpo Dimer Acid	HFPO-DA	0.0630	63	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0	2.5	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluorodecanoic Acid	PFDA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluoroheptanoic Acid	PFHpA	0	2.4	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluorohexanoic Acid	PFHxA	0.00	2.3	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	PFOA	PFOA	0.16000	160	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
GC1123-PT	PT		11/13/2023	PFOS	PFOS	0.0034	3.4	Y			Liquid	FS	Drinking Water	39.27175	-81.6566
SW0318-RIVER UPSTREAM-1	RIVER UPSTREAM		3/19/2018	Hfpo Dimer Acid	HFPO-DA	0.13	130	Y			Liquid	FS	Surface Water		
SW0318-RIVER UPSTREAM-1	RIVER UPSTREAM		3/19/2018	PFOA	PFOA	0.011	11	Y			Liquid	FS	Surface Water		
SW0318-RIVER UPSTREAM-1	RIVER UPSTREAM		3/19/2018	APFO	APFO	0.012	12	Y			Liquid	FS	Surface Water		
080817-RIVERLOC3A-BOT	RIVERLOC3A-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC3A-BOT	RIVERLOC3A-2017 POST		8/8/2017	PFOA	PFOA	0.0066	6.6	Y			Liquid	FS	Surface Water		
080817-RIVERLOC3A-MID	RIVERLOC3A-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC3A-MID	RIVERLOC3A-2017 POST		8/8/2017	PFOA	PFOA	0.0077	7.7	Y			Liquid	FS	Surface Water		
080817-RIVERLOC3A-SURF	RIVERLOC3A-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC3A-SURF	RIVERLOC3A-2017 POST		8/8/2017	PFOA	PFOA	0.0074	7.4	Y			Liquid	FS	Surface Water		
080817-RIVERLOC3B-BOT	RIVERLOC3B-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC3B-BOT	RIVERLOC3B-2017 POST		8/8/2017	PFOA	PFOA	0.0057	5.7	Y			Liquid	FS	Surface Water		
080817-RIVERLOC3B-MID	RIVERLOC3B-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC3B-MID	RIVERLOC3B-2017 POST		8/8/2017	PFOA	PFOA	0.0059	5.9	Y			Liquid	FS	Surface Water		
080817-RIVERLOC3B-SURF	RIVERLOC3B-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC3B-SURF	RIVERLOC3B-2017 POST		8/8/2017	PFOA	PFOA	0.0067	6.7	Y			Liquid	FS	Surface Water		
080817-RIVERLOC6A-MID	RIVERLOC6A-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC6A-MID	RIVERLOC6A-2017 POST		8/8/2017	PFOA	PFOA	0.0056	5.6	Y			Liquid	FS	Surface Water		
080817-RIVERLOC6A-SURF	RIVERLOC6A-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.033	33	Y			Liquid	FS	Surface Water		
080817-RIVERLOC6A-SURF	RIVERLOC6A-2017 POST		8/8/2017	PFOA	PFOA	0.032	32	Y			Liquid	FS	Surface Water		
080817-RIVERLOC6B-MID	RIVERLOC6B-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC6B-MID	RIVERLOC6B-2017 POST		8/8/2017	PFOA	PFOA	0.0055	5.5	Y			Liquid	FS	Surface Water		
080817-RIVERLOC6B-SURF	RIVERLOC6B-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC6B-SURF	RIVERLOC6B-2017 POST		8/8/2017	PFOA	PFOA	0.018	18	Y			Liquid	FS	Surface Water		
080817-RIVERLOC7-MID	RIVERLOC7-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC7-MID	RIVERLOC7-2017 POST		8/8/2017	PFOA	PFOA	0.0091	9.1	Y			Liquid	FS	Surface Water		
080817-RIVERLOC7-MID-D	RIVERLOC7-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	DUP	Surface Water		
080817-RIVERLOC7-MID-D	RIVERLOC7-2017 POST		8/8/2017	PFOA	PFOA	0.0072	7.2	Y			Liquid	DUP	Surface Water		
080817-RIVERLOC7-SURF	RIVERLOC7-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC7-SURF	RIVERLOC7-2017 POST		8/8/2017	PFOA	PFOA	0.007	7	Y			Liquid	FS	Surface Water		
080817-RIVERLOC8A-BOT	RIVERLOC8A-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC8A-BOT	RIVERLOC8A-2017 POST		8/8/2017	PFOA	PFOA	0.012	12	Y			Liquid	FS	Surface Water		
080817-RIVERLOC8A-MID	RIVERLOC8A-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC8A-MID	RIVERLOC8A-2017 POST		8/8/2017	PFOA	PFOA	0.012	12	Y			Liquid	FS	Surface Water		
080817-RIVERLOC8A-SURF	RIVERLOC8A-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC8A-SURF	RIVERLOC8A-2017 POST		8/8/2017	PFOA	PFOA	0.012	12	Y			Liquid	FS	Surface Water		
080817-RIVERLOC8B-BOT	RIVERLOC8B-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC8B-BOT	RIVERLOC8B-2017 POST		8/8/2017	PFOA	PFOA	0.0099	9.9	Y			Liquid	FS	Surface Water		
080817-RIVERLOC8B-MID	RIVERLOC8B-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC8B-MID	RIVERLOC8B-2017 POST		8/8/2017	PFOA	PFOA	0.01	10	Y			Liquid	FS	Surface Water		
080817-RIVERLOC8B-SURF	RIVERLOC8B-2017 POST		8/8/2017	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Surface Water		
080817-RIVERLOC8B-SURF	RIVERLOC8B-2017 POST		8/8/2017	PFOA	PFOA	0.01	10	Y			Liquid	FS	Surface Water		
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluorononanoic Acid	PFNA	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluoroundecanoic Acid	PFUnA	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluorohexanoic Acid	PFHxA	0.0180	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0180	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluorododecanoic Acid	PFDoA	0.0180	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluorotridecanoic Acid	PFTriA	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	DONA	DONA	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	PFOS	PFOS	0.0180	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluoroheptanoic Acid	PFHpA	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Perfluorodecanoic Acid	PFDA	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	Hfpo Dimer Acid	HFPO-DA	0.018	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	PFOA	PFOA	1.200	1200	Y			Liquid	FS	Drinking Water	39.273202	-81.604056
GC0423-SPBHITWS-PT	SPBHITWS-PT		4/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0180	18	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluorononanoic Acid	PFNA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluorohexanoic Acid	PFHxA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	DONA	DONA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	PFOS	PFOS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluoroheptanoic Acid	PFHpA	0.005	5.1	Y			Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Perfluorodecanoic Acid	PFDA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	Hfpo Dimer Acid	HFPO-DA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	PFOA	PFOA	0.190	190	Y			Liquid	FS	Drinking Water	39.273202	-81.604056
GC0523-SPBHITWS-PT	SPBHITWS-PT		5/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluorohexanoic Acid	PFHxA	0.0057	5.7	Y		J	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	DONA	DONA	0.002	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	PFOS	PFOS	0.00	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluoroheptanoic Acid	PFHpA	0.0320	32	Y		J	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	PFOA	PFOA	1.000	1000	Y			Liquid	FS	Drinking Water	39.273202	-81.604056
GC0623-SPBHITWS-PT	SPBHITWS-PT		6/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U	UJ	Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluorodecanoic Acid	PFDA	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluoroheptanoic Acid	PFHpA	0.04	36	Y	H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00200	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluorotetradecanoic Acid	PFTeA	0.00200	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	PFOS	PFOS	0.00200	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	DONA	DONA	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluorododecanoic Acid	PFDoA	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0020	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluorohexanoic Acid	PFHxA	0.0062	6.2	Y	H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluoroundecanoic Acid	PFUnA	0.00200	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	Perfluorononanoic Acid	PFNA	0.00200	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	PFOA	PFOA	1.10000	1100	Y	H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0723-SPBHITWS-PT	SPBHITWS-PT		7/26/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluorodecanoic Acid	PFDA	0.00190	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluoroheptanoic Acid	PFHpA	0.03900	39	Y	H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	PFOS	PFOS	0.0019	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	DONA	DONA	0.002	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluorotridecanoic Acid	PFTriA	0.00190	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluorohexanoic Acid	PFHxA	0.01	7	Y	H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	Perfluorononanoic Acid	PFNA	0.00	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	PFOA	PFOA	1.40	1400	Y	H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0823-SPBHITWS-PT	SPBHITWS-PT		8/23/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.9	N	U,H		LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0923-SPBHITWS-PT	SPBHITWS-PT		9/21/2023	Perfluorononanoic Acid	PFNA	0.00	1.9	N	U	UJ	LIQUID	FS	Drinking Water	39.273202	-81.604056
GC0923-SPBHITWS-PT

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC1023-SPBHITWS-PT	SPBHITWS-PT		10/20/2023	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC1023-SPBHITWS-PT	SPBHITWS-PT		10/20/2023	Perfluorododecanoic Acid	PFDoA	0.00	2	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC1023-SPBHITWS-PT	SPBHITWS-PT		10/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0020	2	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC1023-SPBHITWS-PT	SPBHITWS-PT		10/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	2	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC1023-SPBHITWS-PT	SPBHITWS-PT		10/20/2023	Perfluorohexanoic Acid	PFHxA	0.004	4.2	Y			Liquid	FS	Drinking Water	39.273202	-81.604056
GC1023-SPBHITWS-PT	SPBHITWS-PT		10/20/2023	Perfluoroundecanoic Acid	PFUnA	0.00	2	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC1023-SPBHITWS-PT	SPBHITWS-PT		10/20/2023	Perfluorononanoic Acid	PFNA	0.00	2	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC1023-SPBHITWS-PT	SPBHITWS-PT		10/20/2023	PFOA	PFOA	0.730	730	Y			Liquid	FS	Drinking Water	39.273202	-81.604056
GC1023-SPBHITWS-PT	SPBHITWS-PT		10/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0	2	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluoroheptanoic Acid	PFHpA	0.021	21	Y			Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluorohexanoic Acid	PFHxA	0.0045	4.5	Y			Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	PFOA	PFOA	0.76	760	Y			Liquid	FS	Drinking Water	39.273202	-81.604056
GC4Q23-SPBHITWS-PT	SPBHITWS-PT		11/16/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.273202	-81.604056
GC0918-TPPSD-PT	TPPSD-PT		9/27/2018	PFOA	PFOA	0.016	16	Y		J	Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1018-TPPSD-PT	TPPSD-PT		10/24/2018	PFOA	PFOA	0.014	14	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1118-TPPSD-PT	TPPSD-PT		11/13/2018	PFOA	PFOA	0.014	14	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1218-TPPSD-PT	TPPSD-PT		12/17/2018	PFOA	PFOA	0.015	15	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0119-TPPSD-PT	TPPSD-PT		1/24/2019	PFOA	PFOA	0.016	16	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0219-TPPSD-PT	TPPSD-PT		2/22/2019	PFOA	PFOA	0.017	17	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0319-TPPSD-PT	TPPSD-PT		3/19/2019	PFOA	PFOA	0.016	16	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0419-TPPSD-PT	TPPSD-PT		4/16/2019	PFOA	PFOA	0.016	16	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0519-TPPSD-PT	TPPSD-PT		5/21/2019	PFOA	PFOA	0.014	14	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0619-TPPSD-PT	TPPSD-PT		6/17/2019	PFOA	PFOA	0.014	14	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0719-TPPSD-PT	TPPSD-PT		7/23/2019	PFOA	PFOA	0.014	14	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0719A-TPPSD-PT	TPPSD-PT		7/23/2019	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0719A-TPPSD-PT-D	TPPSD-PT		7/23/2019	Hfpo Dimer Acid	HFPO-DA	0.01	10	N	U		Liquid	DUP	Drinking Water	39.0821551	-81.790741
GC0819-TPPSD-PT	TPPSD-PT		8/20/2019	PFOA	PFOA	0.014	14	Y			LIQUID	FS	Drinking Water	39.0821551	-81.790741
GC0919-TPPSD-PT	TPPSD-PT		9/26/2019	PFOA	PFOA	0.012	12	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1019-TPPSD-PT	TPPSD-PT		10/21/2019	PFOA	PFOA	0.012	12	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1119-TPPSD-PT	TPPSD-PT		11/20/2019	PFOA	PFOA	0.013	13	Y			LIQUID	FS	Drinking Water	39.0821551	-81.790741
GC1219-TPPSD-PT	TPPSD-PT		12/17/2019	PFOA	PFOA	0.013	13	Y			LIQUID	FS	Drinking Water	39.0821551	-81.790741
GC0120-TPPSD-PT	TPPSD-PT		1/21/2020	PFOA	PFOA	0.01	10	Y			LIQUID	FS	Drinking Water	39.0821551	-81.790741
GC0220-TPPSD-PT	TPPSD-PT		2/18/2020	PFOA	PFOA	0.012	12	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0320-TPPSD-PT	TPPSD-PT		3/17/2020	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0420-TPPSD-PT	TPPSD-PT		4/21/2020	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0520-TPPSD-PT	TPPSD-PT		5/18/2020	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0620-TPPSD-PT	TPPSD-PT		6/23/2020	PFOA	PFOA	0.014	14	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0720-TPPSD-PT	TPPSD-PT		7/21/2020	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0820-TPPSD-PT	TPPSD-PT		8/18/2020	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0920-TPPSD-PT	TPPSD-PT		9/22/2020	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1020-TPPSD-PT	TPPSD-PT		10/20/2020	PFOA	PFOA	0.012	12	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1120-TPPSD-PT	TPPSD-PT		11/18/2020	PFOA	PFOA	0.012	12	Y	F1	J	Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1220-TPPSD-PT	TPPSD-PT		12/15/2020	PFOA	PFOA	0.012	12	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0121-TPPSD-PT	TPPSD-PT		1/19/2021	PFOA	PFOA	0.012	12	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0221-TPPSD-PT	TPPSD-PT		2/17/2021	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0321-TPPSD-PT	TPPSD-PT		3/16/2021	PFOA	PFOA	0.014	14	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0421-TPPSD-PT	TPPSD-PT		4/20/2021	PFOA	PFOA	0.01	10	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0521-TPPSD-PT	TPPSD-PT		5/20/2021	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0621-TPPSD-PT	TPPSD-PT		6/15/2021	PFOA	PFOA	0.015	15	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0721-TPPSD-PT	TPPSD-PT		7/20/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0821-TPPSD-PT	TPPSD-PT		8/16/2021	PFOA	PFOA	0.012	12	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0921-TPPSD-PT	TPPSD-PT		9/20/2021	PFOA	PFOA	0.013	13	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1021-TPPSD-PT	TPPSD-PT		10/18/2021	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1121-TPPSD-PT	TPPSD-PT		11/15/2021	PFOA	PFOA	0.013	13	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1221-TPPSD-PT	TPPSD-PT		12/13/2021	PFOA	PFOA	0.014	14	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0122-TPPSD-PT	TPPSD-PT		1/18/2022	PFOA	PFOA	0.013	13	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0222-TPPSD-PT	TPPSD-PT		2/14/2022	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0322-TPPSD-PT	TPPSD-PT		3/14/2022	PFOA	PFOA	0.011	11	Y	H		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0422-TPPSD-PT	TPPSD-PT		4/18/2022	PFOA	PFOA	0.014	14	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0522-TPPSD-PT	TPPSD-PT		5/17/2022	PFOA	PFOA	0.0098	9.8	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0622-TPPSD-PT	TPPSD-PT		6/21/2022	PFOA	PFOA	0.013	13	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0722-TPPSD-PT	TPPSD-PT		7/18/2022	PFOA	PFOA	0.013	13	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0822-TPPSD-PT	TPPSD-PT		8/15/2022	PFOA	PFOA	0.0095	9.5	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0922-TPPSD-PT	TPPSD-PT		9/20/2022	PFOA	PFOA	0.012	12	Y			LIQUID	FS	Drinking Water	39.0821551	-81.790741
GC1022-TPPSD-PT	TPPSD-PT		10/20/2022	PFOA	PFOA	0.0096	9.6	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1122-TPPSD-PT	TPPSD-PT		11/15/2022	PFOA	PFOA	0.0096	9.6	Y			LIQUID	FS	Drinking Water	39.0821551	-81.790741
GC1222-TPPSD-PT	TPPSD-PT		12/19/2022	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0123-TPPSD-PT	TPPSD-PT		1/16/2023	PFOA	PFOA	0.014	14	Y			LIQUID	FS	Drinking Water	39.0821551	-81.790741
GC0223-TPPSD-PT	TPPSD-PT		2/21/2023	PFOA	PFOA	0.013	13	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0323-TPPSD-PT	TPPSD-PT		3/20/2023	PFOA	PFOA	0.011	11	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluorododecanoic Acid	PFDoA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluorohexanoic Acid	PFHxA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluoroundecanoic Acid	PFUnA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluorononanoic Acid	PFNA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	PFOS	PFOS	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	DONA	DONA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Hfpo Dimer Acid	HFPO-DA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	PFOA	PFOA	0.0088	8.8	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0423-TPPSD-PT	TPPSD-PT		4/18/2023	Perfluorodecanoic Acid	PFDA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	PFOA	PFOA	0.013	13	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0523-TPPSD-PT	TPPSD-PT		5/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0623-TPPSD-PT	TPPSD-PT		6/20/2023	PFOA	PFOA	0.012	12	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0723-TPPSD-PT	TPPSD-PT		7/24/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0723-TPPSD-PT	TPPSD-PT		7/24/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0723-TPPSD-PT	TPPSD-PT		7/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0723-TPPSD-PT	TPPSD-PT		7/24/

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC0823-TPPSD-PT	TPPSD-PT		8/21/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0823-TPPSD-PT	TPPSD-PT		8/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0823-TPPSD-PT	TPPSD-PT		8/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0823-TPPSD-PT	TPPSD-PT		8/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0823-TPPSD-PT	TPPSD-PT		8/21/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0823-TPPSD-PT	TPPSD-PT		8/21/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0823-TPPSD-PT	TPPSD-PT		8/21/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0823-TPPSD-PT	TPPSD-PT		8/21/2023	PFOA	PFOA	0.0091	9.1	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluorodecanoic Acid	PFDA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	PFOA	PFOA	0.012	12	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	PFOS	PFOS	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0021	2.1	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluoroheptanoic Acid	PFHpA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	DONA	DONA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluorononanoic Acid	PFNA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluoroundecanoic Acid	PFUnA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluorohexanoic Acid	PFHxA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluorododecanoic Acid	PFDoA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	Perfluorotridecanoic Acid	PFTriA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC0923-TPPSD-PT	TPPSD-PT		9/19/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	2	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1023-TPPSD-PT	TPPSD-PT		10/16/2023	PFOA	PFOA	0.01	10	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0023	2.3	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.0821551	-81.790741
GC1123-TPPSD-PT	TPPSD-PT		11/14/2023	PFOA	PFOA	0.0098	9.8	Y			Liquid	FS	Drinking Water	39.0821551	-81.790741
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	PFOS	PFOS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluoropentanoic Acid	PFPA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluorohexanoic Acid	PFHxA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	PFOA	PFOA	0.0021	2.1	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.002	2	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0222-UPSTREAM-A	UPSTREAM		2/16/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Hfpo Dimer Acid	HFPO-DA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluoropentanoic Acid	PFPA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	PFOA	PFOA	0.0022	2.2	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluorobutanoic Acid	PFBA	0.0044	4.4	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0322-UPSTREAM-A	UPSTREAM		3/16/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Hfpo Dimer Acid	HFPO-DA	0.0025	2.5	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	PFOS	PFOS	0.0019	1.9	Y	I	J	LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluoropentanoic Acid	PFPA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluorohexanoic Acid	PFHxA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	PFOA	PFOA	0.0029	2.9	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0018	1.8	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV0422-UPSTREAM-A	UPSTREAM		5/11/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Hfpo Dimer Acid	HFPO-DA	0.0038	3.8	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	PFOS	PFOS	0.0022	2.2	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluoropentanoic Acid	PFPA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0025	2.5	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluorohexanoic Acid	PFHxA	0.0022	2.2	Y	I	J	LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	PFOA	PFOA	0.0074	7.4	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluorobutanoic Acid	PFBA	0.0042	4.2	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluorobutane Sulfonic Acid	PFBS	0.003	3	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluoroheptanoic Acid	PFHpA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluorononanoic Acid	PFNA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-063022-UPSTREAM-A	Upstream		6/30/2022	DONA	DONA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	Hfpo Dimer Acid	HFPO-DA	0.0048	4.8	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	PFOS	PFOS	0.0026	2.6	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	Perfluoropentanoic Acid	PFPA	0.0029	2.9	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	Perfluorohexanoic Acid	PFHxA	0.0036	3.6	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	PFOA	PFOA	0.0046	4.6	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0017	1.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	Perfluorobutanoic Acid	PFBA	0.0043	4.3	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A	Upstream		8/17/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0061	6.1	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-0822-UPSTREAM-A

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluoropentanoic Acid	PFPA	0.0022	2.2	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0026	2.6	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluorohexanoic Acid	PFHxA	0.002	2	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	PFOA	PFOA	0.0024	2.4	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluorobutanoic Acid	PFBA	0.0044	4.4	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluorobutane Sulfonic Acid	PFBS	0.0052	5.2	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1122-UPSTREAM-A	Upstream		11/2/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Hfpo Dimer Acid	HFPO-DA	0.0027	2.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluoropentanoic Acid	PFPA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0027	2.7	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	PFOA	PFOA	0.0021	2.1	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluorobutanoic Acid	PFBA	0.0044	4.4	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluorobutane Sulfonic Acid	PFBS	0.003	3	Y			LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-1222-UPSTREAM-A	UPSTREAM		12/12/2022	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00704	7.04	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00704	7.04	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	DONA	DONA	0.00704	7.04	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Hfpo Dimer Acid	HFPO-DA	0.00704	7.04	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00352	3.52	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluorobutane Sulfonic Acid	PFBS	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluorobutanoic Acid	PFBA	0.00704	7.04	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluorodecanoic Acid	PFDA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluorododecanoic Acid	PFDoA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluoroheptanoic Acid	PFHpA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluorohexanoic Acid	PFHxA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluorononanoic Acid	PFNA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluoropentanoic Acid	PFPA	0.00352	3.52	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluorotetradecanoic Acid	PFTeA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluorotridecanoic Acid	PFTriA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	Perfluoroundecanoic Acid	PFUnA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	PFOA	PFOA	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
OHRV-020623-UPSTREAM-A	UPSTREAM		2/6/2023	PFOS	PFOS	0.00176	1.76	N	U		LIQUID	FS	Surface Water	39.268474	-81.588495
GC3Q18-VOP-PT	VOPPT		8/22/2018	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC4Q18-VOP-PT	VOPPT		10/31/2018	PFOA	PFOA	0.01	10	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC1Q19-VOP-PT	VOPPT		2/12/2019	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q19-VOP-PT	VOPPT		5/21/2019	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q19-VOP-PT	VOPPT		8/21/2019	PFOA	PFOA	0.01	10	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q19-VOP-PT	VOPPT		11/15/2019	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC1Q20-VOP-PT	VOPPT		2/18/2020	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q20-VOP-PT	VOPPT		5/18/2020	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q20-VOP-PT	VOPPT		8/18/2020	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC4Q20-VOP-PT	VOPPT		11/18/2020	PFOA	PFOA	0.01	10	N	U,F1		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC1Q21-VOP-PT	VOPPT		2/17/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q21-VOP-PT	VOPPT		5/20/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q21-VOP-PT	VOPPT		8/24/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC4Q21-VOP-PT	VOPPT		11/9/2021	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC1Q22-VOP-PT	VOPPT		2/16/2022	PFOA	PFOA	0.01	10	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q22-VOP-PT	VOPPT		5/17/2022	PFOA	PFOA	0.0024	2.4	Y			Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q22-VOP-PT	VOPPT		8/16/2022	PFOA	PFOA	0.0042	4.2	Y	B	B	Liquid	FS	Drinking Water	39.0313144	-82.025706
GC4Q22-VOP-PT	VOPPT		11/15/2022	PFOA	PFOA	0.0035	3.5	Y			Liquid	FS	Drinking Water	39.0313144	-82.025706
GC1Q23-VOP-PT	VOPPT		2/20/2023	PFOA	PFOA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	PFOA	PFOA	0.0035	3.5	Y			Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0055	5.5	Y			Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0018	1.8	Y			Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC2Q23-VOP-PT	VOPPT		6/1/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	PFOA	PFOA	0.0036	3.6	Y	H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	DONA	DONA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	PFOS	PFOS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.007	7	Y	H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluorohexanoic Acid	PFHxA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	Y	H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0021	2.1	Y	H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	2	Y	H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC3Q23-VOP-PT	VOPPT		8/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U,H		Liquid	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	DONA	DONA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0097	9.7	Y			LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0026	2.6	Y			LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluoroheptanoic Acid	PFHpA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0026	2.6	Y			LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorohexanoic Acid	PFHxA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	Perfluoroundecanoic Acid	PFUnA	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	PFOA	PFOA	0.0044	4.4	Y			LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC4Q23-VOP-PT	VOPPT		11/14/2023	PFOS	PFOS	0.0018	1.8	N	U		LIQUID	FS	Drinking Water	39.0313144	-82.025706
GC918-VPSD1-PT	VPSD1-PT		9/17/2018	PFOA	PFOA	0.12	120	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1018-VPSD1-PT	VPSD1-PT		10/19/2018	PFOA	PFOA	0.2	150	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1118-VPSD1-PT	VPSD1-PT		11/14/2018	PFOA	PFOA	0.1	98	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1218-VPSD1-PT	VPSD1-PT		12/18/2018	PFOA	PFOA	0.12	120	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0119-VPSD1-PT	VPSD1-PT		1/21/2019	PFOA	PFOA	0.1	120	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0219-VPSD1-PT	VPSD1-PT		2/18/2019	PFOA	PFOA	0.15000	150	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0319-VPSD1-PT	VPSD1-PT		3/18/2019	PFOA	PFOA	0.2	160	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0419-VPSD1-PT	VPSD1-PT		4/15/2019	PFOA	PFOA	0.1	140	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0519-VPSD1-PT	VPSD1-PT		5/23/2019	PFOA	PFOA	0.1	140	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0619-VPSD1-PT	VPSD1-PT		6/17/2019	PFOA	PFOA	0.1	140	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0719-VPSD1-PT	VPSD1-PT		7/25/2019	PFOA	PFOA	0.1	140	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0819-VPSD1-PT	VPSD1-PT		8/19/2019	PFOA	PFOA	0.150	150	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0919-VPSD1-PT	VPSD1-PT		9/26/2019	PFOA	PFOA	0.1	140	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1019-VPSD1-PT	VPSD1-PT		10/21/2019	PFOA	PFOA	0.1	140	Y			LIQUID	FS	Drinking Water	39.347763	-81.54176
GC1119-VPSD1-PT	VPSD1-PT		11/18/2019	PFOA	PFOA	0.2	150	Y			LIQUID	FS	Drinking Water	39.347763	-81.54176
GC1219-VPSD1-PT	VPSD1-PT		12/16/2019	PFOA	PFOA	0.140	140	Y			LIQUID	FS	Drinking Water	39.347763	-81.54176
GC0120-VPSD1-PT	VPSD1-PT		1/20/2020	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0220-VPSD1-PT	VPSD1-PT		2/20/2020	PFOA	PFOA	0.150	150	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0320-VPSD1-PT	VPSD1-PT		3/16/2020	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0420-VPSD1-PT	VPSD1-PT		4/20/2020	PFOA	PFOA	0.1200	120	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0520-VPSD1-PT	VPSD1-PT		5/19/2020	PFOA	PFOA	0.140	140	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0620-VPSD1-PT	VPSD1-PT		6/22/2020	PFOA	PFOA	0.150	150	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0720-VPSD1-PT	VPSD1-PT		7/20/2020	PFOA	PFOA	0.1400	140	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0820-VPSD1-PT	VPSD1-PT		8/17/2020	PFOA	PFOA	0.1300	130	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0920-VPSD1-PT	VPSD1-PT		9/21/2020	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.347

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC1122-VPSD1-PT	VPSD1-PT		11/14/2022	PFOA	PFOA	0.1400	140	Y			LIQUID	FS	Drinking Water	39.347763	-81.54176
GC1222-VPSD1-PT	VPSD1-PT		12/19/2022	PFOA	PFOA	0.2100	210	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC123-VPSD1-PT	VPSD1-PT		1/16/2023	PFOA	PFOA	0.150	150	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0223-VPSD1-PT	VPSD1-PT		2/21/2023	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluorohexanoic Acid	PFHxA	0.0	7.5	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0	14	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	PFOS	PFOS	0.00	4.5	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.02	16	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluoroheptanoic Acid	PFHpA	0.010	10	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Perfluorodecanoic Acid	PFDA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	PFOA	PFOA	0.120	120	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0323-VPSD1-PT	VPSD1-PT		3/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluorodecanoic Acid	PFDA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluoroheptanoic Acid	PFHpA	0.018	18	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0210	21	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	PFOS	PFOS	0.004	3.9	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	DONA	DONA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.110	110	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluorohexanoic Acid	PFHxA	0.019	19	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	Perfluorononanoic Acid	PFNA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	PFOA	PFOA	0.210	210	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0423-VPSD1-PT	VPSD1-PT		4/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluorodecanoic Acid	PFDA	0.0	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluoroheptanoic Acid	PFHpA	0.0	19	Y	H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0170	17	Y	H,*-	J	Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	PFOS	PFOS	0.0	3.1	Y	H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	DONA	DONA	0.00	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0910	91	Y	H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluorohexanoic Acid	PFHxA	0.017	17	Y	H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	Perfluorononanoic Acid	PFNA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	PFOA	PFOA	0.2300	230	Y	H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0523-VPSD1-PT	VPSD1-PT		5/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Hfpo Dimer Acid	HFPO-DA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluoroheptanoic Acid	PFHpA	0.02100	21	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.022	22	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	PFOS	PFOS	0.003	2.9	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	DONA	DONA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.081	81	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluorohexanoic Acid	PFHxA	0.017	17	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	Perfluorononanoic Acid	PFNA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	PFOA	PFOA	0.240	240	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0623-VPSD1-PT	VPSD1-PT		6/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluorodecanoic Acid	PFDA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluoroheptanoic Acid	PFHpA	0.018	18	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.017	17	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	PFOS	PFOS	0.0025	2.5	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluorododecanoic Acid	PFDoA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0730	73	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluorohexanoic Acid	PFHxA	0.0	15	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	PFOA	PFOA	0.2	180	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0723-VPSD1-PT	VPSD1-PT		7/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluorodecanoic Acid	PFDA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0130	13	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0170	17	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	PFOS	PFOS	0.00520	5.2	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	DONA	DONA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluorotridecanoic Acid	PFTriA	0.0020	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00200	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluorododecanoic Acid	PFDoA	0.00200	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.08800	88	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluorohexanoic Acid	PFHxA	0.01	14	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluoroundecanoic Acid	PFUnA	0.00	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	Perfluorononanoic Acid	PFNA	0.00	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	PFOA	PFOA	0.1500	150	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0823-VPSD1-PT	VPSD1-PT		8/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0020	2	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluoroundecanoic Acid	PFUnA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluorohexanoic Acid	PFHxA	0.0	14	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.07500	75	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	PFOS	PFOS	0.003	2.6	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0170	17	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0160	16	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	PFOA	PFOA	0.1700	170	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC0923-VPSD1-PT	VPSD1-PT		9/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluorodecanoic Acid	PFDA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluoroheptanoic Acid	PFHpA	0.0110	11	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0170	17	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	PFOS	PFOS	0.0045	4.5	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	DONA	DONA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.058	58	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluorohexanoic Acid	PFHxA	0	9.4	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	Perfluorononanoic Acid	PFNA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1023-VPSD1-PT	VPSD1-PT		10/16/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.013	13	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	Perfluorodecanoic Acid	PFDA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	Perfluorododecanoic Acid	PFDoA	0	1.9	N	U		Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	Perfluoroheptanoic Acid	PFHpA	0.01	12	Y			Liquid	FS	Drinking Water	39.347763	-81.54176
GC1123-VPSD1-PT	VPSD1-PT		11/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0190	19	Y			Liquid	FS	Drinking Water

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC0420-VPSD2-PT	VPSD2-PT		4/20/2020	PFOA	PFOA	0.0920	92	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0520-VPSD2-PT	VPSD2-PT		5/19/2020	PFOA	PFOA	0.096	96	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0620-VPSD2-PT	VPSD2-PT		6/22/2020	PFOA	PFOA	0.1	87	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0720-VPSD2-PT	VPSD2-PT		7/20/2020	PFOA	PFOA	0.10	95	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0820-VPSD2-PT	VPSD2-PT		8/17/2020	PFOA	PFOA	0.0860	86	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0920-VPSD2-PT	VPSD2-PT		9/21/2020	PFOA	PFOA	0.0960	96	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1020-VPSD2-PT	VPSD2-PT		10/19/2020	PFOA	PFOA	0.1100	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1120-VPSD2-PT	VPSD2-PT		11/16/2020	PFOA	PFOA	0.096	96	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1220-VPSD2-PT	VPSD2-PT		12/14/2020	PFOA	PFOA	0.1000	100	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0121-VPSD2-PT	VPSD2-PT		1/18/2021	PFOA	PFOA	0.10	99	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0221-VPSD2-PT	VPSD2-PT		2/16/2021	PFOA	PFOA	0.084	84	Y	H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0321-VPSD2-PT	VPSD2-PT		3/15/2021	PFOA	PFOA	0.11000	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0421-VPSD2-PT	VPSD2-PT		4/19/2021	PFOA	PFOA	0.09	93	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0521-VPSD2-PT	VPSD2-PT		5/18/2021	PFOA	PFOA	0.110	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0621-VPSD2-PT	VPSD2-PT		6/14/2021	PFOA	PFOA	0.100	100	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0721-VPSD2-PT	VPSD2-PT		7/19/2021	PFOA	PFOA	0.0930	93	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0821-VPSD2-PT	VPSD2-PT		8/16/2021	PFOA	PFOA	0.1000	100	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0921-VPSD2-PT	VPSD2-PT		9/20/2021	PFOA	PFOA	0.1100	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1021-VPSD2-PT	VPSD2-PT		10/18/2021	PFOA	PFOA	0.1	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1121-VPSD2-PT	VPSD2-PT		11/15/2021	PFOA	PFOA	0.1	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1221-VPSD2-PT	VPSD2-PT		12/13/2021	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0122-VPSD2-PT	VPSD2-PT		1/18/2022	PFOA	PFOA	0.1	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0222-VPSD2-PT	VPSD2-PT		2/15/2022	PFOA	PFOA	0.100	100	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0322-VPSD2-PT	VPSD2-PT		3/14/2022	PFOA	PFOA	0.092	92	Y	H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0422-VPSD2-PT	VPSD2-PT		4/18/2022	PFOA	PFOA	0.100	100	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0522-VPSD2-PT	VPSD2-PT		5/16/2022	PFOA	PFOA	0.100	100	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0622-VPSD2-PT	VPSD2-PT		6/21/2022	PFOA	PFOA	0.1200	120	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0722-VPSD2-PT	VPSD2-PT		7/18/2022	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0822-VPSD2-PT	VPSD2-PT		8/15/2022	PFOA	PFOA	0.100	100	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0922-VPSD2-PT	VPSD2-PT		9/19/2022	PFOA	PFOA	0.110	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1022-VPSD2-PT	VPSD2-PT		10/19/2022	PFOA	PFOA	0.120	120	Y			LIQUID	FS	Drinking Water	39.309	-81.55135
GC1122-VPSD2-PT	VPSD2-PT		11/14/2022	PFOA	PFOA	0.1	110	Y			LIQUID	FS	Drinking Water	39.309	-81.55135
GC1222-VPSD2-PT	VPSD2-PT		12/19/2022	PFOA	PFOA	0.099	99	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC123-VPSD2-PT	VPSD2-PT		1/16/2023	PFOA	PFOA	0.120	120	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0223-VPSD2-PT	VPSD2-PT		2/21/2023	PFOA	PFOA	0.100	100	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluorohexanoic Acid	PFHxA	0.0	4.4	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0	4.2	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	PFOS	PFOS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.008	8.4	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluoroheptanoic Acid	PFHpA	0.006	5.7	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Perfluorodecanoic Acid	PFDA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	Hfpo Dimer Acid	HFPO-DA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	PFOA	PFOA	0.1000	100	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0323-VPSD2-PT	VPSD2-PT		3/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0016	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluorodecanoic Acid	PFDA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluoroheptanoic Acid	PFHpA	0.00780	7.8	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.012	12	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	PFOS	PFOS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	DONA	DONA	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0052	5.2	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluorohexanoic Acid	PFHxA	0.006	5.8	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	Perfluorononanoic Acid	PFNA	0.002	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	PFOA	PFOA	0.110	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0423-VPSD2-PT	VPSD2-PT		4/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.6	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluoroheptanoic Acid	PFHpA	0.0084	8.4	Y	H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0091	9.1	Y	H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	PFOS	PFOS	0.0	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	DONA	DONA	0.00	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluorotridecanoic Acid	PFTriA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0042	4.2	Y	H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluorohexanoic Acid	PFHxA	0.006	5.8	Y	H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	Perfluorononanoic Acid	PFNA	0.00180	1.8	N	U,H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0523-VPSD2-PT	VPSD2-PT		5/22/2023	PFOA	PFOA	0.1000	100	Y	H		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Hfpo Dimer Acid	HFPO-DA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluoroheptanoic Acid	PFHpA	0.009	9.3	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.011	11	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	DONA	DONA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	PFOA	PFOA	0.120	120	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.005	4.5	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluorohexanoic Acid	PFHxA	0.01	6.6	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0623-VPSD2-PT	VPSD2-PT		6/21/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluorodecanoic Acid	PFDA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluoroheptanoic Acid	PFHpA	0.008	8.4	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluorobutane Sulfonic Acid	PFBS	0.010	10	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	PFOS	PFOS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	DONA	DONA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	PFOA	PFOA	0.1100	110	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.005	4.7	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluorohexanoic Acid	PFHxA	0.0057	5.7	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0723-VPSD2-PT	VPSD2-PT		7/24/2023	Perfluorononanoic Acid	PFNA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0088	8.8	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0120	12	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	PFOS	PFOS	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	DONA	DONA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	PFOA	PFOA	0.12	120	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluorotridecanoic Acid	PFTriA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluorododecanoic Acid	PFDoA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00540	5.4	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluorohexanoic Acid	PFHxA	0.01	5.7	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0823-VPSD2-PT	VPSD2-PT		8/21/2023	Perfluorononanoic Acid	PFNA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluorononanoic Acid	PFNA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluoroundecanoic Acid	PFUnA	0.00190	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluorohexanoic Acid	PFHxA	0.01	5.6	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00510	5.1	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluorotridecanoic Acid	PFTriA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	PFOA	PFOA	0.12	120	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0120	12	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0084	8.4	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC0923-VPSD2-PT	VPSD2-PT		9/18/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC1023-VPSD2-PT	VPSD2-PT		10/16/2023	Perfluorodecanoic Acid	PFDA	0.002	2	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC1023-V

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0	8.5	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluoroheptanoic Acid	PFHpA	0	4.6	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0	3.7	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluorohexanoic Acid	PFHxA	0.00	3.6	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluorononanoic Acid	PFNA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	Perfluoroundecanoic Acid	PFUnA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	PFOA	PFOA	0.089	89	Y			Liquid	FS	Drinking Water	39.309	-81.55135
GC1123-VPSD2-PT	VPSD2-PT		11/13/2023	PFOS	PFOS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.309	-81.55135
GC1119-VPSD3-PT	VPSD3-PT		11/7/2019	PFOA	PFOA	0.1	64	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC1119-VPSD3-PT-D	VPSD3-PT		11/7/2019	PFOA	PFOA	0.063	63	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1219-VPSD3-PT	VPSD3-PT		12/16/2019	PFOA	PFOA	0.084	84	Y			LIQUID	FS	Drinking Water	39.32859	-81.553
GC1219-VPSD3-PT-D	VPSD3-PT		12/16/2019	PFOA	PFOA	0.083	83	Y			LIQUID	DUP	Drinking Water	39.32859	-81.553
GC0120-VPSD3-PT	VPSD3-PT		1/20/2020	PFOA	PFOA	0.110	110	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0120-VPSD3-PT-D	VPSD3-PT		1/20/2020	PFOA	PFOA	0.11	110	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0220-VPSD3-PT	VPSD3-PT		2/20/2020	PFOA	PFOA	0.11	110	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0220-VPSD3-PT-D	VPSD3-PT		2/20/2020	PFOA	PFOA	0.120	120	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0320-VPSD3-PT	VPSD3-PT		3/16/2020	PFOA	PFOA	0.140	140	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0320-VPSD3-PT-D	VPSD3-PT		3/16/2020	PFOA	PFOA	0.140	140	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0420-VPSD3-PT	VPSD3-PT		4/20/2020	PFOA	PFOA	0.0870	87	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0420-VPSD3-PT-D	VPSD3-PT		4/20/2020	PFOA	PFOA	0.0900	90	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0520-VPSD3-PT	VPSD3-PT		5/19/2020	PFOA	PFOA	0.1200	120	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0520-VPSD3-PT-D	VPSD3-PT		5/19/2020	PFOA	PFOA	0.1200	120	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0620-VPSD3-PT	VPSD3-PT		6/22/2020	PFOA	PFOA	0.13	130	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0620-VPSD3-PT-D	VPSD3-PT		6/22/2020	PFOA	PFOA	0.13	130	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0720-VPSD3-PT	VPSD3-PT		7/20/2020	PFOA	PFOA	0.1100	110	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0720-VPSD3-PT-D	VPSD3-PT		7/20/2020	PFOA	PFOA	0.1100	110	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0820-VPSD3-PT	VPSD3-PT		8/17/2020	PFOA	PFOA	0.1300	130	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0820-VPSD3-PT-D	VPSD3-PT		8/17/2020	PFOA	PFOA	0.1300	130	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0920-VPSD3-PT	VPSD3-PT		9/21/2020	PFOA	PFOA	0.140	140	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0920-VPSD3-PT-D	VPSD3-PT		9/21/2020	PFOA	PFOA	0.140	140	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1020-VPSD3-PT	VPSD3-PT		10/19/2020	PFOA	PFOA	0.1300	130	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC1020-VPSD3-PT-D	VPSD3-PT		10/19/2020	PFOA	PFOA	0.1300	130	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1120-VPSD3-PT	VPSD3-PT		11/16/2020	PFOA	PFOA	0.10000	100	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC1120-VPSD3-PT-D	VPSD3-PT		11/16/2020	PFOA	PFOA	0.1000	100	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1220-VPSD3-PT	VPSD3-PT		12/14/2020	PFOA	PFOA	0.110	110	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC1220-VPSD3-PT-D	VPSD3-PT		12/14/2020	PFOA	PFOA	0.110	110	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0121-VPSD3-PT	VPSD3-PT		1/18/2021	PFOA	PFOA	0.13	130	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0121-VPSD3-PT-D	VPSD3-PT		1/18/2021	PFOA	PFOA	0.13	130	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0221-VPSD3-PT	VPSD3-PT		2/16/2021	PFOA	PFOA	0.087	87	Y	H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0221-VPSD3-PT-D	VPSD3-PT		2/16/2021	PFOA	PFOA	0.088	88	Y	H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0321-VPSD3-PT	VPSD3-PT		3/15/2021	PFOA	PFOA	0.15000	150	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0321-VPSD3-PT-D	VPSD3-PT		3/15/2021	PFOA	PFOA	0.1600	160	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0421-VPSD3-PT	VPSD3-PT		4/19/2021	PFOA	PFOA	0.1200	120	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0421-VPSD3-PT-D	VPSD3-PT		4/19/2021	PFOA	PFOA	0.1100	110	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0521-VPSD3-PT	VPSD3-PT		5/18/2021	PFOA	PFOA	0.120	120	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0521-VPSD3-PT-D	VPSD3-PT		5/18/2021	PFOA	PFOA	0.120	120	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0621-VPSD3-PT	VPSD3-PT		6/14/2021	PFOA	PFOA	0.1500	150	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0621-VPSD3-PT-D	VPSD3-PT		6/14/2021	PFOA	PFOA	0.1300	130	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0721-VPSD3-PT	VPSD3-PT		7/19/2021	PFOA	PFOA	0.11	110	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0721-VPSD3-PT-D	VPSD3-PT		7/19/2021	PFOA	PFOA	0.1100	110	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0821-VPSD3-PT	VPSD3-PT		8/16/2021	PFOA	PFOA	0.1100	110	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0821-VPSD3-PT-D	VPSD3-PT		8/16/2021	PFOA	PFOA	0.1200	120	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0921-VPSD3-PT	VPSD3-PT		9/20/2021	PFOA	PFOA	0.1200	120	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0921-VPSD3-PT-D	VPSD3-PT		9/20/2021	PFOA	PFOA	0.130	130	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1021-VPSD3-PT	VPSD3-PT		10/18/2021	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC1021-VPSD3-PT-D	VPSD3-PT		10/18/2021	PFOA	PFOA	0.1	140	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1121-VPSD3-PT	VPSD3-PT		11/15/2021	PFOA	PFOA	0.1	130	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC1121-VPSD3-PT-D	VPSD3-PT		11/15/2021	PFOA	PFOA	0.1	130	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1221-VPSD3-PT	VPSD3-PT		12/13/2021	PFOA	PFOA	0.3	250	Y		J	Liquid	FS	Drinking Water	39.32859	-81.553
GC1221-VPSD3-PT-D	VPSD3-PT		12/13/2021	PFOA	PFOA	0.130	130	Y		J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0122-VPSD3-PT	VPSD3-PT		1/18/2022	PFOA	PFOA	0.150	150	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0122-VPSD3-PT-D	VPSD3-PT		1/18/2022	PFOA	PFOA	0.2	150	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0222-VPSD3-PT	VPSD3-PT		2/15/2022	PFOA	PFOA	0.1	140	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0222-VPSD3-PT-D	VPSD3-PT		2/15/2022	PFOA	PFOA	0.130	130	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0322-VPSD3-PT	VPSD3-PT		3/14/2022	PFOA	PFOA	0.140	140	Y	H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0322-VPSD3-PT-D	VPSD3-PT		3/14/2022	PFOA	PFOA	0.1400	140	Y	H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0422-VPSD3-PT	VPSD3-PT		4/18/2022	PFOA	PFOA	0.140	140	Y	F1	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC0422-VPSD3-PT-D	VPSD3-PT		4/18/2022	PFOA	PFOA	0.120	120	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0522-VPSD3-PT	VPSD3-PT		5/16/2022	PFOA	PFOA	0.160	160	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0522-VPSD3-PT-D	VPSD3-PT		5/16/2022	PFOA	PFOA	0.140	140	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0622-VPSD3-PT	VPSD3-PT		6/21/2022	PFOA	PFOA	0.160	160	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0622-VPSD3-PT-D	VPSD3-PT		6/21/2022	PFOA	PFOA	0.160	160	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0722-VPSD3-PT	VPSD3-PT		7/18/2022	PFOA	PFOA	0.160	160	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0722-VPSD3-PT-D	VPSD3-PT		7/18/2022	PFOA	PFOA	0.160	160	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0822-VPSD3-PT	VPSD3-PT		8/15/2022	PFOA	PFOA	0.140	140	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0822-VPSD3-PT-D	VPSD3-PT		8/15/2022	PFOA	PFOA	0.150	150	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0922-VPSD3-PT	VPSD3-PT		9/19/2022	PFOA	PFOA	0.170	170	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0922-VPSD3-PT-D	VPSD3-PT		9/19/2022	PFOA	PFOA	0.170	170	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1022-VPSD3-PT	VPSD3-PT		10/19/2022	PFOA	PFOA	0.160	160	Y			LIQUID	FS	Drinking Water	39.32859	-81.553
GC1022-VPSD3-PT-D	VPSD3-PT		10/19/2022	PFOA	PFOA	0.160	160	Y			LIQUID	DUP	Drinking Water	39.32859	-81.553
GC1122-VPSD3-PT	VPSD3-PT		11/14/2022	PFOA	PFOA	0.1300	130	Y	H		LIQUID	FS	Drinking Water	39.32859	-81.553
GC1122-VPSD3-PT-D	VPSD3-PT		11/14/2022	PFOA	PFOA	0.130	130	Y	H		LIQUID	DUP	Drinking Water	39.32859	-81.553
GC1222-VPSD3-PT	VPSD3-PT		12/19/2022	PFOA	PFOA	0.150	150	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC1222-VPSD3-PT-D	VPSD3-PT		12/19/2022	PFOA	PFOA	0.140	140	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC123-VPSD3-PT	VPSD3-PT		1/16/2023	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC123-VPSD3-PT-D	VPSD3-PT		1/16/2023	PFOA	PFOA	0.140	140	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0223-VPSD3-PT	VPSD3-PT		2/21/2023	PFOA	PFOA	0.130	130	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0223-VPSD3-PT-D	VPSD3-PT		2/21/2023	PFOA	PFOA	0.140	140	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluorononanoic Acid	PFNA	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluorohexanoic Acid	PFHxA	0.0	5.4	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluorohexanoic Acid	PFHxA	0.0	5.3	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.008	7.5	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.007	7	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	PFOA	PFOA	0.11	110	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	PFOA	PFOA	0.110	110	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	DONA	DONA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	DONA	DONA	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluorotetradecanoic Acid	PFTeA	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.010	10	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluorobutane Sulfonic Acid	PFBS	0.010	9.8	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluoroheptanoic Acid	PFHpA	0.010	10	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluoroheptanoic Acid	PFHpA	0.010	9.8	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Perfluorodecanoic Acid	PFDA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Perfluorodecanoic Acid	PFDA	0.0	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT	VPSD3-PT		3/20/2023	Hfpo Dimer Acid	HFPO-DA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0323-VPSD3-PT-D	VPSD3-PT		3/20/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Hfpo Dimer Acid	HFPO-DA	0.0017	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Hfpo Dimer Acid	HFPO-DA	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluorodecanoic Acid	PFDA	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluorodecanoic Acid	PFDA	0.002	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluoroheptanoic Acid	PFHpA	0.014	14	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluoroheptanoic Acid	PFHpA	0.0140	14	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.01	12	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluorobutane Sulfonic Acid	PFBS	0.013	13	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.0	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	PFOS	PFOS	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	PFOS	PFOS	0.002	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	DONA	DONA	0.0	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	PFOA	PFOA	0.160	160	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	PFOA	PFOA	0.15	150	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluorododecanoic Acid	PFDoA	0.0	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.008	7.9	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.008	7.6	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluorohexanoic Acid	PFHxA	0.0091	9.1	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluorohexanoic Acid	PFHxA	0.0094	9.4	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.7	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT	VPSD3-PT		4/17/2023	Perfluorononanoic Acid	PFNA	0.002	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0423-VPSD3-PT-D	VPSD3-PT		4/17/2023	Perfluoronon

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	PFOA	PFOA	0.130	130	Y	H	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	PFOA	PFOA	1.400	1400	Y	H	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.005	5.3	Y	H	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.110	110	Y	H	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	1.8	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	Perfluorohexanoic Acid	PFHxA	0.009	8.7	Y	H	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	Perfluorohexanoic Acid	PFHxA	0.051	51	Y	H	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.8	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT	VPSD3-PT		5/22/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U,H	UJ	Liquid	FS	Drinking Water	39.32859	-81.553
GC0523-VPSD3-PT-D	VPSD3-PT		5/22/2023	Perfluorononanoic Acid	PFNA	0.0031	3.1	Y	H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Hfpo Dimer Acid	HFPO-DA	0.00	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Hfpo Dimer Acid	HFPO-DA	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Perfluorodecanoic Acid	PFDA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Perfluoroheptanoic Acid	PFHpA	0.016	16	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.011	11	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.011	11	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	DONA	DONA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	DONA	DONA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	PFOA	PFOA	0.150	150	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	PFOA	PFOA	0.150	150	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Perfluorododecanoic Acid	PFDoA	0.0018	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Perfluorododecanoic Acid	PFDoA	0.0024	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Perfluorohexanoic Acid	PFHxA	0.01	10	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Perfluorohexanoic Acid	PFHxA	0.01	10	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT	VPSD3-PT		6/21/2023	Perfluorononanoic Acid	PFNA	0.0	1.8	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0623-VPSD3-PT-D	VPSD3-PT		6/21/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluorononanoic Acid	PFNA	0.00	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluorononanoic Acid	PFNA	0.00170	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0017	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluoroundecanoic Acid	PFUnA	0.0	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluorohexanoic Acid	PFHxA	0.0081	8.1	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluorohexanoic Acid	PFHxA	0.008	7.7	Y		J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0077	7.7	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0072	7.2	Y		J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluorododecanoic Acid	PFDoA	0.0017	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.002	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluorotridecanoic Acid	PFTriA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0017	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	PFOA	PFOA	0.1700	170	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	PFOA	PFOA	0.1600	160	Y		J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.0017	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	DONA	DONA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	DONA	DONA	0.0017	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	PFOS	PFOS	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	PFOS	PFOS	0.0017	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0170	17	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0	15	Y		J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluoroheptanoic Acid	PFHpA	0.0	14	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluoroheptanoic Acid	PFHpA	0.014	14	Y		J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT-D	VPSD3-PT		7/28/2023	Perfluorodecanoic Acid	PFDA	0.002	1.7	N	U	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0723-VPSD3-PT	VPSD3-PT		7/28/2023	Perfluorodecanoic Acid	PFDA	0.0017	1.7	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluorodecanoic Acid	PFDA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluorodecanoic Acid	PFDA	0.0024	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0140	14	Y	H	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluoroheptanoic Acid	PFHpA	0.0081	8.1	Y	H	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0120	12	Y	H	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0079	7.9	Y	H	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluorotetradecanoic Acid	PFTeA	0.002	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	PFOS	PFOS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	PFOS	PFOS	0.0049	4.9	Y	H	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	DONA	DONA	0.00180	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	DONA	DONA	0.00240	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	PFOA	PFOA	0.15000	150	Y	H	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	PFOA	PFOA	0.09	94	Y	H	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00240	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluorotridecanoic Acid	PFTriA	0.00180	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluorotridecanoic Acid	PFTriA	0.00240	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0018	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.00240	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluorododecanoic Acid	PFDoA	0.00240	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.00730	7.3	Y	H	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.0045	4.5	Y	H	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluorohexanoic Acid	PFHxA	0.01	7.6	Y	H	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluorohexanoic Acid	PFHxA	0.00	4.6	Y	H	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluoroundecanoic Acid	PFUnA	0.00	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT	VPSD3-PT		8/21/2023	Perfluorononanoic Acid	PFNA	0.00	1.8	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC0823-VPSD3-PT-D	VPSD3-PT		8/21/2023	Perfluorononanoic Acid	PFNA	0.0024	2.4	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	Perfluorononanoic Acid	PFNA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	Perfluoroundecanoic Acid	PFUnA	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	Perfluorohexanoic Acid	PFHxA	0.01000	10	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	Perfluorohexanoic Acid	PFHxA	0.01	10	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.01	7.6	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.01	7.7	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	Perfluorododecanoic Acid	PFDoA	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	Perfluorotridecanoic Acid	PFTriA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	PFOA	PFOA	0.170	170	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	PFOA	PFOA	0.160	160	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	DONA	DONA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	DONA	DONA	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	PFOS	PFOS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	PFOS	PFOS	0.002	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	Perfluorotetradecanoic Acid	PFTeA	0.0018	1.8	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.016	16	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT-D	VPSD3-PT		9/18/2023	Perfluorobutane Sulfonic Acid	PFBS	0.0160	16	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC0923-VPSD3-PT	VPSD3-PT		9/18/2023	Perfluoroheptanoic Acid	PFHpA	0.0160	16	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC0923-VPSD3

Appendix K
Off-Site Water Data Included in Summary Tables
2023 Updated Conceptual Site Model Report
Chemours Washington Works Plant

Field Sample ID	Location ID	Regulatory Location ID	Sample Date	Parameter Name	Param Abbrev	Report Result (ug/L)	Report Result (ng/L)	Detected	Lab Qualifier	Validation Qualifier	Sample Matrix	Sample Purpose	Sample Type	Latitude (Decimal)	Longitude (Decimal)
GC1023-VPSD3-PT-D	VPSD3-PT		10/16/2023	Perfluorododecanoic Acid	PFDoA	0.002	2	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT	VPSD3-PT		10/16/2023	Perfluorododecanoic Acid	PFDoA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT-D	VPSD3-PT		10/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.01	7.2	Y	H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT	VPSD3-PT		10/16/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.007	7.3	Y	H		Liquid	FS	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT-D	VPSD3-PT		10/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT	VPSD3-PT		10/16/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT-D	VPSD3-PT		10/16/2023	Perfluorohexanoic Acid	PFHxA	0.006	6.3	Y	H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT	VPSD3-PT		10/16/2023	Perfluorohexanoic Acid	PFHxA	0.007	6.6	Y	H		Liquid	FS	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT	VPSD3-PT		10/16/2023	Perfluoroundecanoic Acid	PFUnA	0.002	2	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT-D	VPSD3-PT		10/16/2023	Perfluoroundecanoic Acid	PFUnA	0.002	2	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT	VPSD3-PT		10/16/2023	Perfluorononanoic Acid	PFNA	0.00	2	N	U,H		Liquid	FS	Drinking Water	39.32859	-81.553
GC1023-VPSD3-PT-D	VPSD3-PT		10/16/2023	Perfluorononanoic Acid	PFNA	0.00	2	N	U,H		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluorononanoic Acid	PFNA	0.0019	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	DONA	DONA	0	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluorohexanoic Acid	PFHxA	0.0059	5.9	Y	*-	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.0	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	NMeFOSAA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.006	6.3	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.01	13	Y	*-	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluorododecanoic Acid	PFDoA	0.002	1.9	N	U,*-	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluorodecanoic Acid	PFDA	0.0	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluorotridecanoic Acid	PFTriA	0.0	1.9	N	U,*-	UJ	Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluorododecanoic Acid	PFDoA	0	1.9	N	U,*-	UJ	Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	11Cl-PF3OUdS	11Cl-PF3OUdS	0	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluoroheptanoic Acid	PFHpA	0.0	11	Y	*-	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	NEtFOSAA	0.0019	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluorohexane Sulfonic Acid	PFHxS	0.01	6.2	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluorohexanoic Acid	PFHxA	0.0057	5.7	Y	*-	J	Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	PFOA	PFOA	0.12	120	Y			Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	9Cl-PF3ONS	9Cl-PF3ONS	0.00	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluorononanoic Acid	PFNA	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	PFOS	PFOS	0.00	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.0019	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	DONA	DONA	0.00	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluorotridecanoic Acid	PFTriA	0.00	1.9	N	U,*-	UJ	Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluorotetradecanoic Acid	PFTeA	0.00	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	Perfluoroundecanoic Acid	PFUnA	0.002	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluorobutane Sulfonic Acid	PFBS	0.013	13	Y	*-	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	PFOA	PFOA	0.12	120	Y			Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluoroheptanoic Acid	PFHpA	0.0100	10	Y	*-	J	Liquid	DUP	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT	VPSD3-PT		11/13/2023	PFOS	PFOS	0.00	1.9	N	U		Liquid	FS	Drinking Water	39.32859	-81.553
GC1123-VPSD3-PT-D	VPSD3-PT		11/13/2023	Perfluorodecanoic Acid	PFDA	0.0019	1.9	N	U		Liquid	DUP	Drinking Water	39.32859	-81.553

Appendix L

Environmental Protection Agency Off-Site Environmental Media Sample Results

Microsoft Excel-based data file submitted separately

Appendix M

PFAS Forensics Analysis Report

Washington Works PFAS Statistical Forensics Analysis Report

Chemours Washington Works Plant
Washington, West Virginia

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Appendix A: Chemours Washington Works Drinking Water Data Set

1.0 Introduction

This Per- And Polyfluoroalkyl Substances (PFAS) Statistical Forensics Analysis Report presents an expanded evaluation of PFAS in private drinking water sources in Ohio and West Virginia in the vicinity of the Chemours Company FC, LLC (Chemours) Washington Works Plant (the site).

On March 4, 2024, Chemours submitted the *2023 Updated Conceptual Site Model Report* to Ms. Susanne Haug, Remedial Program Manager, U. S. Environmental Protection Agency Region 3 (EPA). That report documented the revisions to the Conceptual Site Model (CSM) for the site, located in Washington, West Virginia and presents the On-Site and Off-Site CSMs for the site updated in 2023, which include key site and other agencies' PFAS sampling results through 2023.

As part of this CSM update, AECOM developed concentration maps (dot maps), which depict the concentrations of various PFAS in private (residential) drinking water sources in the vicinity of the site in Ohio and West Virginia (see Figures 6-6 through 6-17 of the *2023 Updated Conceptual Site Model Report)*. The objective of the dot map evaluation was to determine if the drinking-water well data set showed trends in the spatial distribution of individual PFAS within the investigation area.

The results of the dot map evaluation showed that there are similar patterns in the distribution of perfluorooctanoic acid (PFOA), perfluorohexanoic acid (PFHxA), perfluoroheptanoic acid (PFHpA) and to a lesser extent hexafluoropropylene oxide dimer acid (HFPO-DA; commonly referred to as GenX). For these PFAS, concentrations are higher closer to the site and in the primary wind direction to the northeast and decrease with increasing distance from the site. PFHxA and PFHpA were residuals in the ammonium perfluorooctanoate used at the site until 2000, so it is not unexpected that the distribution of these two PFAS would be similar to that of PFOA.

HFPO-DA replaced PFOA as a site processing aid starting in 2013, so the similarities in the presence of PFOA and HFPO-DA are also not unexpected. However, HFPO-DA has been used for a shorter timeframe (2013 through the present compared to the time from the 1950s to 2013), and abatement technologies have been installed that have resulted in reduced concentrations of PFAS in site air emissions overall. Therefore the areal footprint of HFPO-DA is smaller.

In addition, there are localized detections (or hot spots) in the PFOA, PFHxA, and PFHpA dot maps that are higher than surrounding detections, indicating the presence of sources of these three PFAS unrelated to site manufacturing. The presence and distribution of the remaining PFAS detected in the private drinking water sources, particularly the sulfonate PFAS compounds, indicate that these PFAS also likely represent localized hot spot sources and are unrelated to site manufacturing processes.

While informative, the dot map analysis was limited in the conclusions that could be drawn with respect to source determination. To evaluate if unique PFAS fingerprints, defined as distinct, recognizable combinations of PFAS observed in connection with a specific source, could be identified in the drinking-water data set, AECOM performed a PFAS statistical forensics analysis using the same data set as was used for the dot map analysis.

Subject to US/Chemours Settlement Confidentiality Agreement

The remainder of this report is organized as follows:

- Section 2 describes the methodology used for this statistical forensics data analysis, the data set evaluated, and the data preprocessing.
- Section 3 presents the results of the statistical forensics data analysis, including the initial data observations and the isolated PFAS mixture signature groups.
- Section 4 presents the forensics interpretation of the results.
- Section 5 provides the conclusions of the PFAS statistical forensics analysis.
- Section 6 lists the references cited in this report.

2.0 Methodology

Environmental statistical forensics is a multidisciplinary process that makes use of powerful statistical and data analytics methods to assess multiple types of data (e.g., chemical, geospatial, historical, hydrogeological). Pattern-recognition techniques and compositional mixture analysis can be used to identify indicator compounds and contaminant sources for specific chemical families such as PFAS. This section provides additional background information, describes the statistical methods used in this forensic analysis, and summarizes the data included in the analysis, including preprocessing steps.

2.1 Overview of Statistical Forensic Data Analysis

This environmental statistical forensics analysis aims to impartially reveal groupings (i.e., clusters) of similar observations so that relationships within the data set can be successfully explored and modeled. The use of statistical methods such as principal component analysis (PCA) and hierarchical clustering to differentiate chemical mixtures is not new or novel. In the chemical sciences, this approach has been used for decades in a wide range of applications from identifying adulterated food products to discerning distinct petroleum releases (Brereton, 2009). Recently, the widespread accessibility to statistical computing through open-source platforms like R Statistical Software (2023) has grown alongside the need for more powerful tools to investigate PFAS in the environment. This has led to the demonstration of a wide range of statistical applications in PFAS investigations, ranging from the identification of novel PFAS molecules in analytical chemistry applications (McCord and Strynar, 2019) to using PCA and hierarchical clustering to link PFAS mixtures found in blood serum to specific dietary exposure sources (Hu et al., 2018).

The statistical approach applied to the data set in this analysis is consistent with robust combinations of these same methods used by several others to investigate and define PFAS sources (Yao et al., 2014; Zhang et al., 2016; Munoz et al., 2017; Guelfo and Adamson, 2018; Hu et al., 2018; McCord and Strynar, 2019; Stoiber et al., 2020; Luo et al., 2021; Zheng et al., 2021; Ruyle et al., 2021). Based on the broad adoption of these methods in published PFAS research, there is clearly a growing consensus that these multivariate statistical methods provide one of the most valid, effective ways to differentiate and evaluate PFAS sources.

Conceptually, the outcome of the forensic statistical analysis is a multivariate profile referred to colloquially as a PFAS fingerprint. The PFAS mixture proportions for each sample are the inputs that ultimately isolate individual groups with similar PFAS compositions; however, this is only one part of the fingerprinting process. A full fingerprint is defined by the aggregated characteristics of those PFAS mixture groups, including correlations and spatial distribution within the groups, much as an actual fingerprint is a two-dimensional collection of uniquely arranged lines and multiple fingerprints represent a single identity.

2.2 Statistical Methodology

The statistical analyses were performed using R software with a combination of PCA and hierarchical clustering to form an unbiased, unsupervised pattern recognition process. Unsupervised pattern recognition is defined as the statistical grouping of multivariate observations by similar features; in this case, they were grouped by similar

PFAS mixture proportions. These methods can be used to categorize large, complex data sets into groups that exhibit similar chemical attributes (e.g., presence of specific compound[s], relative ratio of compounds, etc.). PCA has been utilized to identify environmental contamination sources (Johnson et al., 2002; Brereton, 2009), and PCA combined with hierarchical clustering has been utilized to identify PFAS source patterns (Zhang et al., 2016; Hu et al., 2018; McCord and Strynar, 2019; Stoiber et al., 2020; Luo et al., 2020; Zheng et al., 2021; Ruyle et al., 2021). The output of hierarchical clustering is a labeled data set, where each sample is classified as part of a group (cluster) of similar PFAS mixture signatures. The collective signatures represented by each cluster can then be used as a forensic fingerprint. Based on the expected composition of PFAS released by the site, these fingerprints can be utilized to differentiate between PFAS attributed to the site and PFAS that is not site related.

2.3 Drinking-Water Data Set Evaluated

The data set used for the analysis is provided in Appendix A and included the following:

- Third quarter 2023 granular activated carbon (GAC) system prior to treatment (PT) PFAS results for drinking water sources in Ohio and West Virginia analyzed for 40 PFAS via EPA Method 1633.
- PFAS results for new drinking water sources in Ohio and West Virginia sampled after April 22, 2022 through March 27, 2024, which were analyzed for 18 PFAS via EPA Method 537.1.

2.4 Data Preprocessing

Treatments performed on the data prior to analysis included censoring of non-detects, removal of field duplicates, feature selection by PFAS analyte, observation selection using a lower bound of three PFAS detections per sample, and data transformation, as described in detail below.

Results reported as non-detect are considered to be left-censored data, limited by the sensitivity of the analytical procedures and their ability to quantify low concentrations. It is not appropriate for multivariate statistical analysis to impute these censored concentrations at a value of zero. On the contrary, it is beneficial to represent the variability that would occur on the interval of zero to the limit of the method's technical capability. Because method detection limit data can vary drastically depending on factors such as dilution factors, the lower limit of sensitivity for the purposes of this analysis was considered to be the lowest reported detected concentration for each analyte. Therefore, to estimate potential “true” concentrations below that limit in non-detect observations, a sample of 100 replicates was drawn from a uniform random distribution on the interval of zero to the analyte’s minimum detected concentration, and the mean of that sample was imputed as the observation’s value. In effect, this approximates half of the lower sensitivity limit while preserving the random variability that is expected in such observations, preventing undue weight being placed on a single repeated censored value (as is the case in simple imputation of zero or a multiple of the reporting limit) in data visualizations, pattern recognition analyses, and regression (Brereton, 2009).

A subset of the initial drinking water data set was created by careful, unbiased selection of observations (samples) and features (PFAS analytes). Feature selection was performed on the combined PFAS concentration features, which initially represented 40 PFAS compounds. The compounds were selected based on their detection frequency,

which ensures that only compounds with sufficiently defined concentrations were used in the analysis. Compounds with a detection frequency greater than 20% were retained. This included seven compounds: PFOA, perfluorobutane sulfonic acid (PFBS), PFHpA, perfluorohexane sulfonic acid (PFHxS), PFHxA, perfluorooctane sulfonic acid (PFOS), and HFPO-DA.

In support of this feature selection, these seven compounds were found to include the highest concentrations of PFAS as well. After feature selection, observations were selected that had at least three PFAS detections in order to provide enough information and variation for pattern recognition. Total PFAS concentrations were assessed during this data selection step to ensure that observations with fewer than three detections did not exhibit uncharacteristically high concentrations in their limited detections. This was done to identify whether there is a pattern of significant PFAS impact associated with just one or two analytes, as opposed to multivariate mixtures, which would have necessitated separate consideration. The final drinking water data set selected for the statistical data analysis contained a total of 160 observations. Prior to subjecting data to PCA and hierarchical clustering, various forms of data preprocessing such as autoscaling, logarithmic transformation, and compositional log ratios were explored. Ultimately, the most applicable pattern recognition results were obtained by transforming the PFAS concentration data into compositional ratios representing each analyte's contribution to the total for each sample, and then transforming that data into centered log ratios (CLR) prior to scaling and centering using z-scores (Brereton, 2009; Miller et al., 2018; Varmuza and Filzmoser, 2009).

3.0 Results

3.1 Initial Data Observations

Prior to statistical analysis, initial observations were made of the data set. The overall center and spread of the PFAS concentrations of the selected analytes are shown in Table 3-1. The highest concentration of PFAS was seen in PFOA at a maximum concentration of 4.40 micrograms per liter (µg/L), with an average concentration of 0.479 µg/L. The second highest PFAS was seen in PFOS at a maximum of 2.70 µg/L; however, PFOS had a much lower average concentration at 0.0186 µg/L. A similar observation was made for PFHxS, which had a maximum concentration of 1.00 µg/L but an average concentration of 0.00818 µg/L. The maximum concentrations of the other four PFAS compounds were lower, ranging from 0.120 µg/L (PFHpA) to 0.210 µg/L (HFPO-DA). The full cluster-labeled data set used for the forensic analysis can be found in Appendix A.

3.2 Isolated PFAS Mixture Signature Groups

Four clusters were selected to differentiate the drinking water PFAS signatures. A statistical estimate for the best number of clusters (k) was formed using the common tests of the elbow method and average silhouette scores. These metrics are calculated for each iteration of k, the total number of clusters, in order to define a range where statistical differentiation of clusters is high, meaning that there is a relatively high average silhouette score, and the total number of clusters is found after the inflection point on the curve of the elbow method plot. On Figure 3-1, the elbow method (left) showed most significant inflection in the range of 4 to 6 clusters, and the silhouette scores (right) showed the highest score at k=2, and relatively stable clusters at divisions greater than 3 clusters. Therefore, the optimal k value was determined to be the range of clusters determined by further tests that simultaneously maximized the average number of samples per cluster and captured the PFAS forensic metrics discussed in the report, such as good separation between clusters in the PCA biplot, shown in Figure 3-2 and a visual examination of the dendrogram shown in Figure 3-3. The dendrogram shows the hierarchy formed by the groups and how they are related to each other as the number of clusters increases for each incremental branch split on the diagram. Clusters with connections that are located higher on the dendrogram are less similar than those with connections closer to the x-axis. Therefore, as the number of clusters extracted from the data increases, the PFAS mixture similarity within the clusters increases.

The average PFAS compositions and concentrations for each cluster are shown as bar plots on Figure 3-4 and presented in Table 3-2. Cluster 1 was the smallest cluster and the most unique compared to the other 3. With 18 samples, Cluster 1 was the only cluster dominated by PFOS at 48.0% of the cluster's composition. Cluster 1 also had high contributions of the other two sulfonate compounds when compared to the other clusters. PFHxS made up 18.5% of the cluster's make-up and PFBS made up 3.91%. In comparison, Clusters 2, 3, and 4 each showed contributions of PFOS and PFHxS at less than 1%. Additionally, the PFBS contribution to these clusters was also smaller. PFBS in cluster 2 was at 1.39%, and Clusters 3 and 4 were both less than 1%. Cluster 1 was only 22.7% PFOA, whereas Clusters 2, 3, and 4 were all dominated by PFOA at 91.5%, 93.88%, and 90.2%, respectively.

Clusters 2, 3, and 4 were similar with regards to PFOA but had some differences in the compositional make-up of the minor compounds. Cluster 2 was the largest cluster

overall, with 73 samples. PFHpA and PFHxA made up 2.55% and 2.22% of the cluster, respectively, while HFPO-DA made up 1.13%. Compared to the other clusters, Cluster 3 had the highest percent composition of HFPO-DA at 2.31% and the lowest percent compositions of PFHpA (2.12%) and PFHxA (1.56%). On the other hand, Cluster 4 had higher percentages of PFHpA (4.43%) and PFHxA (4.43%) but lower percentages of HFPO-DA (0.72%). Although not similar in major composition, Cluster 1 also had some minor impacts from PFHpA and PFHxA at 2.51% and 4.14%, respectively. Overall, Cluster 1 is the most unique cluster, with Clusters 2, 3, and 4 showing similarities with some differences in the minor compounds.

4.0 Forensic Interpretation

This section focuses on the results of chemical forensics conducted with the analytical data obtained to date. In general, samples with the highest PFAS concentrations were dominated by PFOA with minor impacts from PFHpA, PFHxA, and HFPO-DA, which is consistent with expected fingerprint(s) of site-related PFAS.

In this evaluation, three clusters, Clusters 2, 3, and 4, were identified to be primarily site-related. As shown in Figure 4-1, these three clusters were also spatially closest to the site, with the furthest points to the northeast and northwest, which is consistent with the primary directions of wind flow at the site. In contrast, most of the samples in Cluster 1 were far from the site, with some located to the south. Cluster 1 also showed a more unique fingerprint compared to the others, with PFOS as the dominant constituent and an overall higher presence of PFHxS. Additionally, Figure 4-2 shows that total PFAS concentration in Clusters 2, 3, and 4 are decreasing with increasing distance from the site, whereas Cluster 1 shows low concentrations for samples closest to the site and one high concentration for a sample that is greater than 25 miles away. This suggests that the principal sources of Cluster 1 are not site related, unlike the other clusters.

To view the similarities and differences between the clusters and within each cluster, pie charts of the PFAS mixtures and key diagnostic groups can be overlaid on a map. Figure 4-3 and Figure 4-4 show the PFAS mixture pie charts on a map. Figure 4-3 shows the distribution of seven PFAS evaluated for each sample, whereas Figure 4-4 excludes PFOA so that the differences in the relative amounts of the minor constituents are more obvious. In Cluster 1, there are three samples to the south of the site with a significant amount of non-site related sulfonate compounds; however, most of the other samples in the cluster have a significant amount of PFOA as seen in Figure 4-3.

Spatially, the individual PFAS mixtures are complex. When PFOA is not shown, as is seen in Figure 4-4, most of the minor constituents in the samples in Cluster 1 are the sulfonate compounds: PFOS, PFHxS, and PFBS, which support a non-site related source. Moreover, Figure 4-4 shows that in Cluster 2, most of the samples' minor constituents are the site-related compounds. However, there appears to be some impacts from PFBS throughout the cluster. Cluster 3 is the closest cluster to the site, with all its samples falling within 10 miles of the Site. This cluster also has virtually no impacts from the sulfonate compounds and has the highest impacts from HFPO-DA compared to the other clusters. This is likely due to the replacement of PFOA by HFPO-DA since 2013 and reduced emissions as a result of abatement systems put in place, giving HFPO-DA less time to travel. Cluster 4 is more widespread, with samples from about one mile from the site to 18 miles from the site, and it appears to be more representative of the older site-related PFAS mixture, given the low presence of HFPO-DA and the higher presence of PFHpA and PFHxA.

5.0 Conclusions

In this report, AECOM describes the approach taken to identify fingerprints in PFAS compositions of drinking water samples to differentiate sources of PFAS in the area.

During the statistical analysis, unsupervised pattern recognition via PCA and hierarchical clustering provided groups of similar chemical signatures for further exploration and identification of specific source fingerprints based on the full chemical, statistical, and spatial profile. In doing so, four clusters were identified.

The PFAS fingerprint in Cluster 3 is consistent with the site-related PFAS since the switch from PFOA to HFPO-DA, and the PFAS fingerprint in Cluster 4 is consistent with the older site-related PFAS, before the switch to HFPO-DA. Cluster 2 is also consistent with the older site PFAS mixture; however, there is some mixing in Cluster 2 with non-site related PFAS, primarily PFBS. The PFAS fingerprint in Cluster 1 appears to be principally non-site related, as evidenced by the higher levels of the sulfonate compounds, although there does appear to be some mixing in certain samples of Cluster 1, as demonstrated by the high presence of PFOA. The mixing of sulfonate compounds in Clusters 1 and 2 indicate the presence of a low-concentration source that is not related to the site.

The results of the statistical forensics data analysis support the initial observations made from the dot map evaluation, which indicated that there is a site-related pattern observable in the data set, but that there are also localized hot spots in the data set that are consistent with a non-site related source.

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Tables

Table 3-1
PFAS Data Summary Statistics
Chemours Washington Works Plant
Washington, West Virginia

Analyte	Unit	Overall (N=160)				
		Mean	Standard Deviation	Median	Minimum	Maximum
PFOS	µg/L	0.0186	0.213	0.000737	0.000448	2.70
PFHxS	µg/L	0.00818	0.079	0.000752	0.000559	1.00
PFBS	µg/L	0.00452	0.0136	0.00200	0.000578	0.160
PFOA	µg/L	0.479	0.740	0.235	0.00550	4.40
PFHpA	µg/L	0.0154	0.0199	0.00750	0.00782	0.120
PFHxA	µg/L	0.0129	0.0204	0.00630	0.000667	0.190
HFPO-DA	µg/L	0.00813	0.0226	0.000957	0.000696	0.210

Notes:
PFAS = per- and polyfluoroalkyl substances [PFOS = perfluorooctane sulfonic acid , PFOA = perfluorooctanoic acid, PFHxA = perfluorohexanoic acid , PFHxS = perfluorohexane sulfonic acid , PFHpA = perfluoroheptanoic acid, PFBS = perfluorobutane sulfonic acid, HFPO-DA = hexafluoropropylene oxide dimer acid (also commonly referred to as GenX)]

N = Number of samples
µg/L = micrograms per liter

Table 3-2
Cluster Average Concentrations and Percentages
Chemours Washington Works Plant
Washington, West Virginia

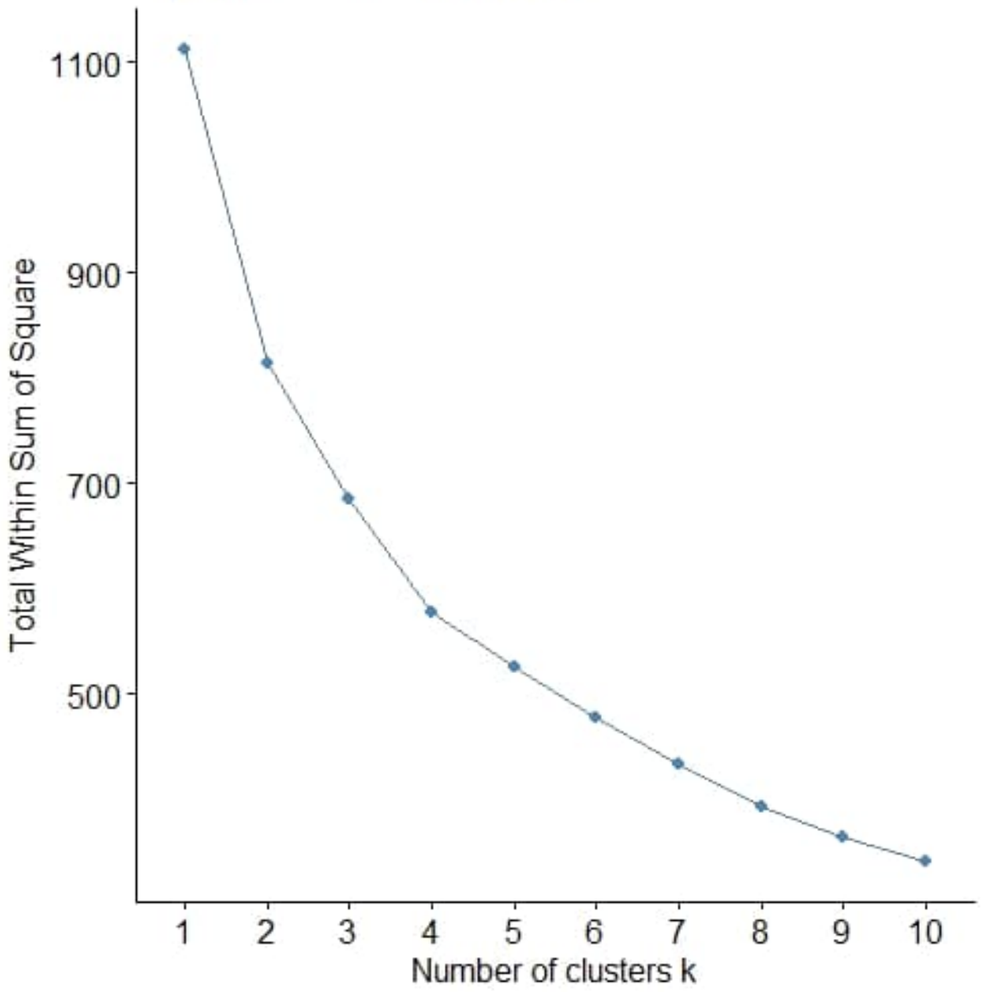
Cluster		1	2	3	4
N		18	73	22	47
Total Average PFAS		0.321	0.298	1.74	0.461
PFOS	Concentration (µg/L)	0.154	0.0019	0.0012	0.0007
	Percent Composition	48.0	0.631	0.0689	0.160
PFHxS	Concentration (µg/L)	0.0592	0.0018	0.0018	0.0015
	Percent Composition	18.5	0.605	0.1040	0.332
PFBS	Concentration (µg/L)	0.0125	0.0041	0.0014	0.0035
	Percent Composition	3.91	1.39	0.0818	0.757
PFOA	Concentration (µg/L)	0.0728	0.272	1.63	0.416
	Percent Composition	22.7	91.5	93.8	90.2
PFHpA	Concentration (µg/L)	0.0080	0.0076	0.0368	0.0204
	Percent Composition	2.51	2.55	2.12	4.43
PFHxA	Concentration (µg/L)	0.0133	0.0066	0.0272	0.0159
	Percent Composition	4.14	2.22	1.56	3.45
HFPO-DA	Concentration (µg/L)	0.0010	0.0033	0.0401	0.0033
	Percent Composition	0.31	1.13	2.31	0.72

Notes:
PFAS = per- and polyfluoroalkyl substances [PFOS = perfluorooctane sulfonic acid , PFOA = perfluorooctanoic acid, PFHxA = perfluorohexanoic acid , PFHxS = perfluorohexane sulfonic acid , PFHpA = perfluoroheptanoic acid, PFBS = perfluorobutane sulfonic acid, HFPO-DA = hexafluoropropylene oxide dimer acid (also commonly referred to as GenX)]

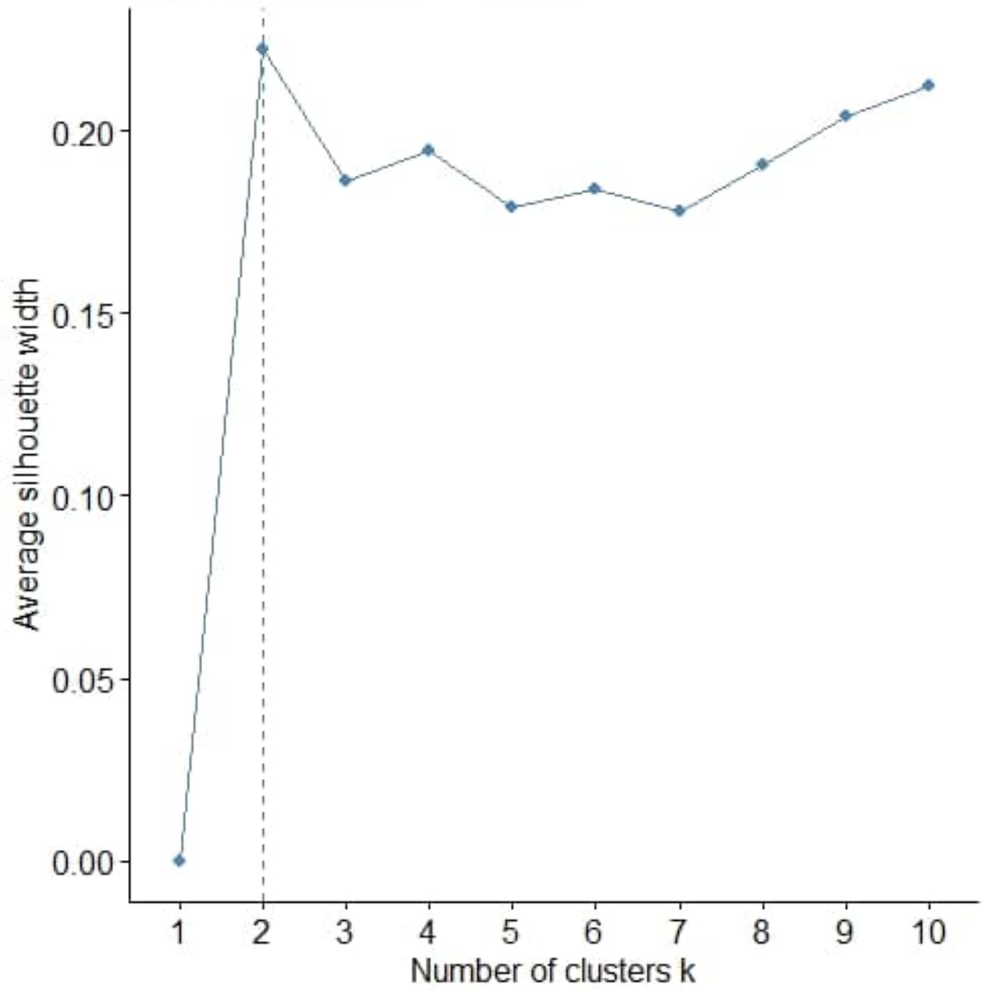
N = Number of samples
µg/L = micrograms per liter

Figures

Elbow

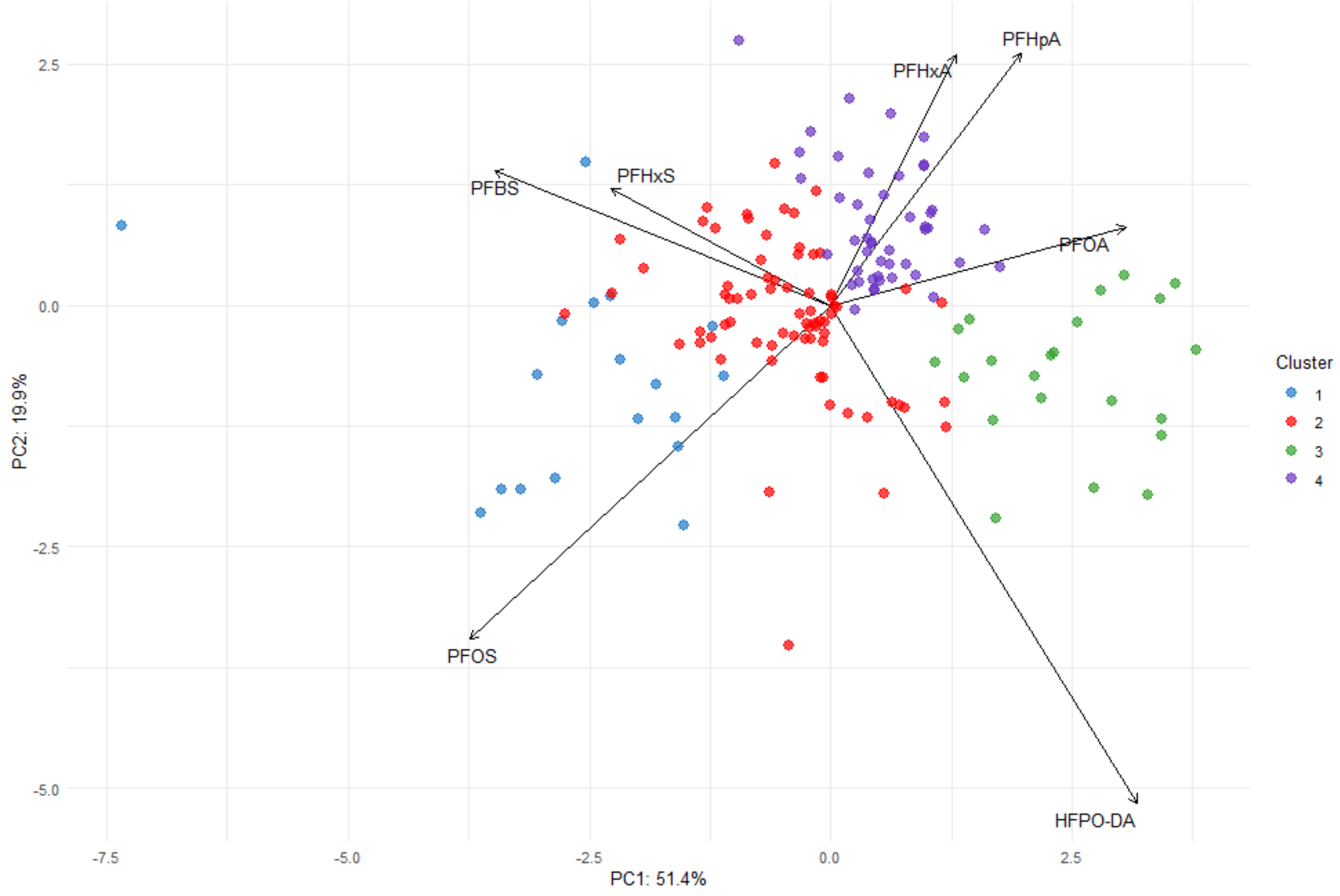


Silhouette



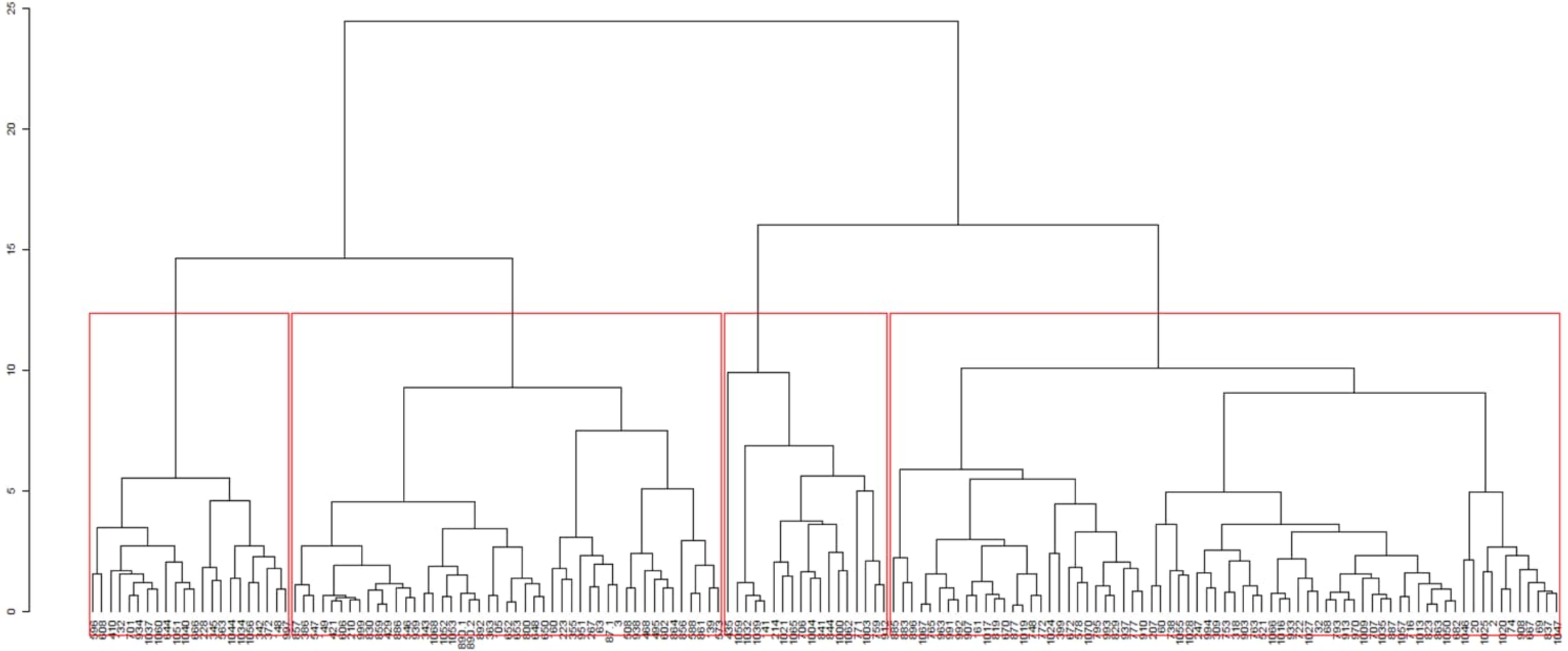
	TASK NUMBER:	AECOM AECOM 248 Chapman Road Suite 101 Newark, DE 19702	Optimal Number of Clusters via Elbow and Silhouette Methods Washington Works PFAS Statistical Forensics Analysis Chemours Washington Works Plant Washington, West Virginia	PROJECT NUMBER: 60713438
	DESIGNED BY: J. MCCURDY			DATE: 7/29/2024
	DRAWN BY: J. MCCURDY			FIGURE NUMBER: 3-1
	DATA QUALITY CHECK BY: S. HESSION			

C:\Users\tanawag\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_PFASStatisticalForensicsAnalysis_Jul2024\Fig 3-1_Optimal Number of Clusters via Elbow and Silhouette Methods.mxd



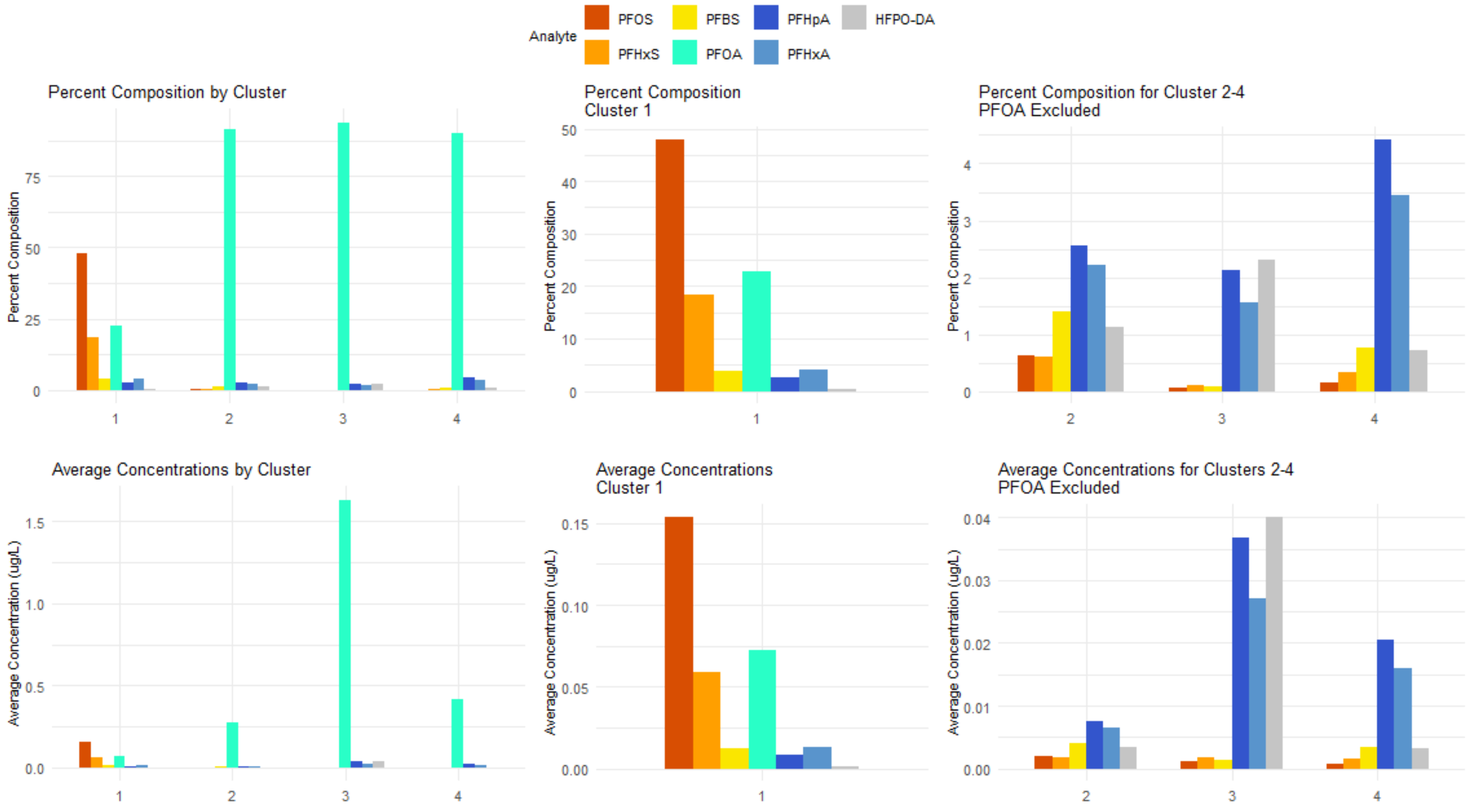
C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_PFASStatisticalForensicsAnalysis_Jul2024\Fig 3-2_PCA Biplot.mxd

	TASK NUMBER:	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	PCA Biplot Washington Works PFAS Statistical Forensics Analysis Chemours Washington Works Plant Washington, West Virginia	PROJECT NUMBER: 60713438 DATE: 7/29/2024 FIGURE NUMBER: 3-2
	DESIGNED BY: J. MCCURDY			
	DRAWN BY: J. MCCURDY			
	DATA QUALITY CHECK BY: S. HESSION			



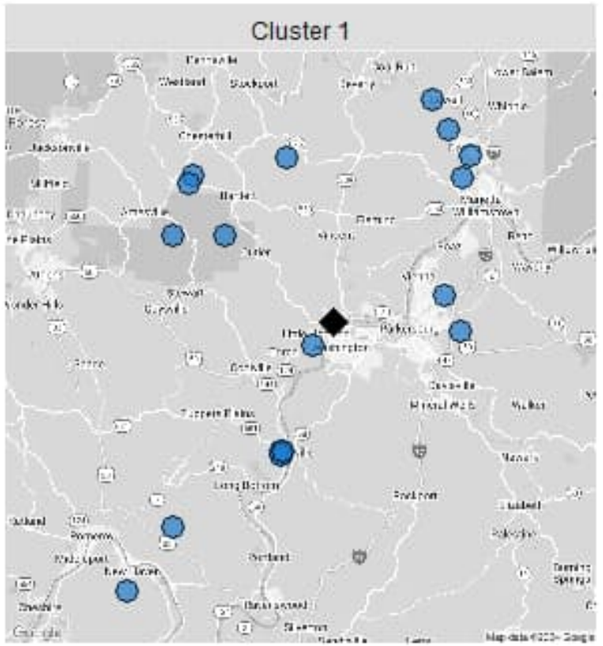
C:\Users\tanasegr\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_PFASStatisticalForensicsAnalysis_Jul2024\Fig 3-3_Dendrogram of Hierarchical Clustering.mxd

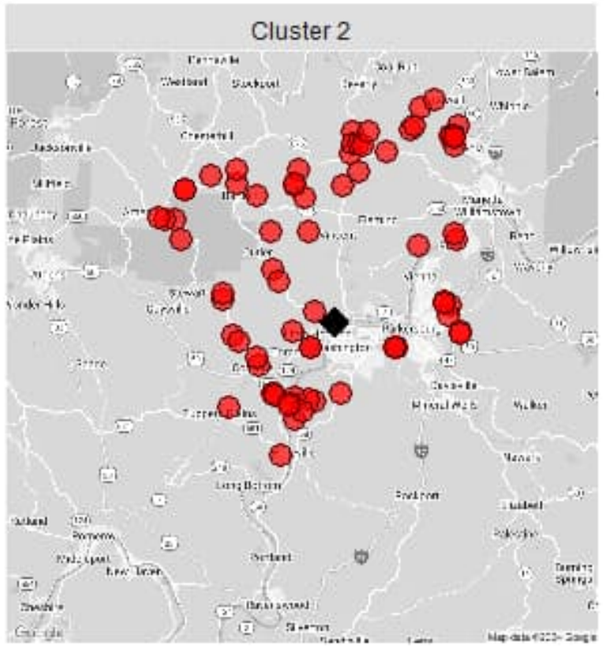
	TASK NUMBER:	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	Dendrogram of Hierarchical Clustering Washington Works PFAS Statistical Forensics Analysis Chemours Washington Works Plant Washington, West Virginia	PROJECT NUMBER: 60713438
	DESIGNED BY: J. MCCURDY			DATE: 7/29/2024
	DRAWN BY: J. MCCURDY			FIGURE NUMBER: 3-3
	DATA QUALITY CHECK BY: S. HESSION			

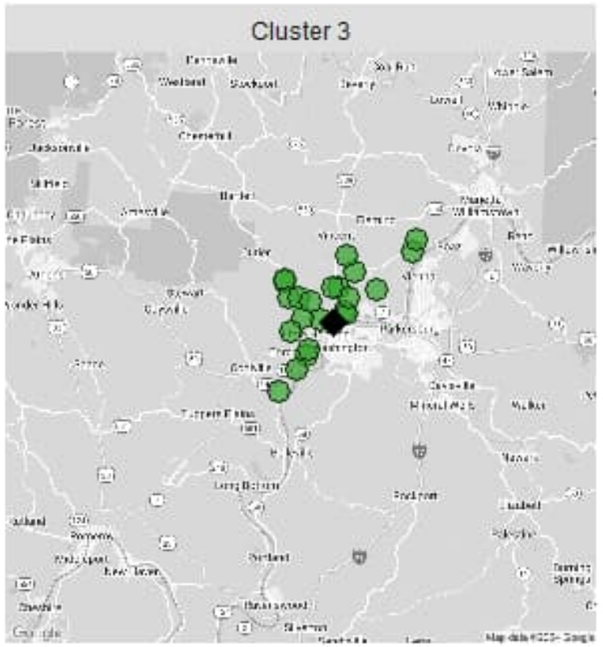


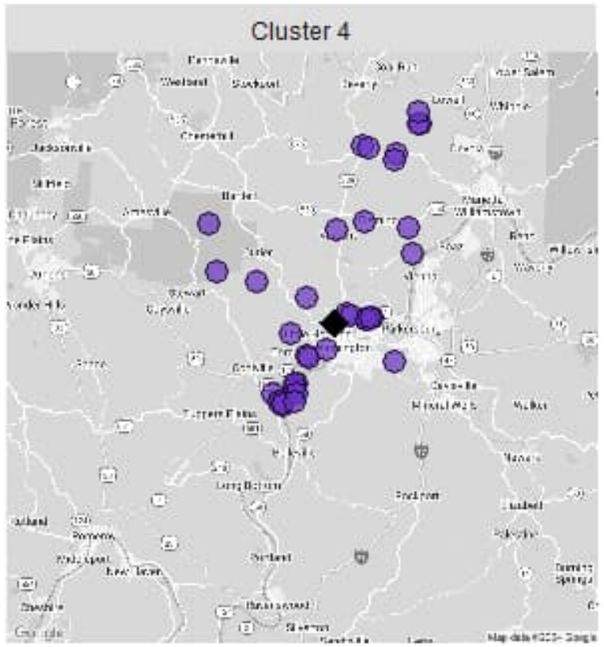
C:\Users\tanaseg\AECOMEC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_PFASStatisticalForensicsAnalysis_Jul2024\Fig 3-4_Cluster profiles.mxd

	TASK NUMBER:	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	Cluster profiles Washington Works PFAS Statistical Forensics Analysis Chemours Washington Works Plant Washington, West Virginia	PROJECT NUMBER: 60713438
	DESIGNED BY: J. MCCURDY			DATE: 7/29/2024
	DRAWN BY: J. MCCURDY			FIGURE NUMBER: 3-4
	DATA QUALITY CHECK BY: S. HESSION			









WW Site

Cluster

1

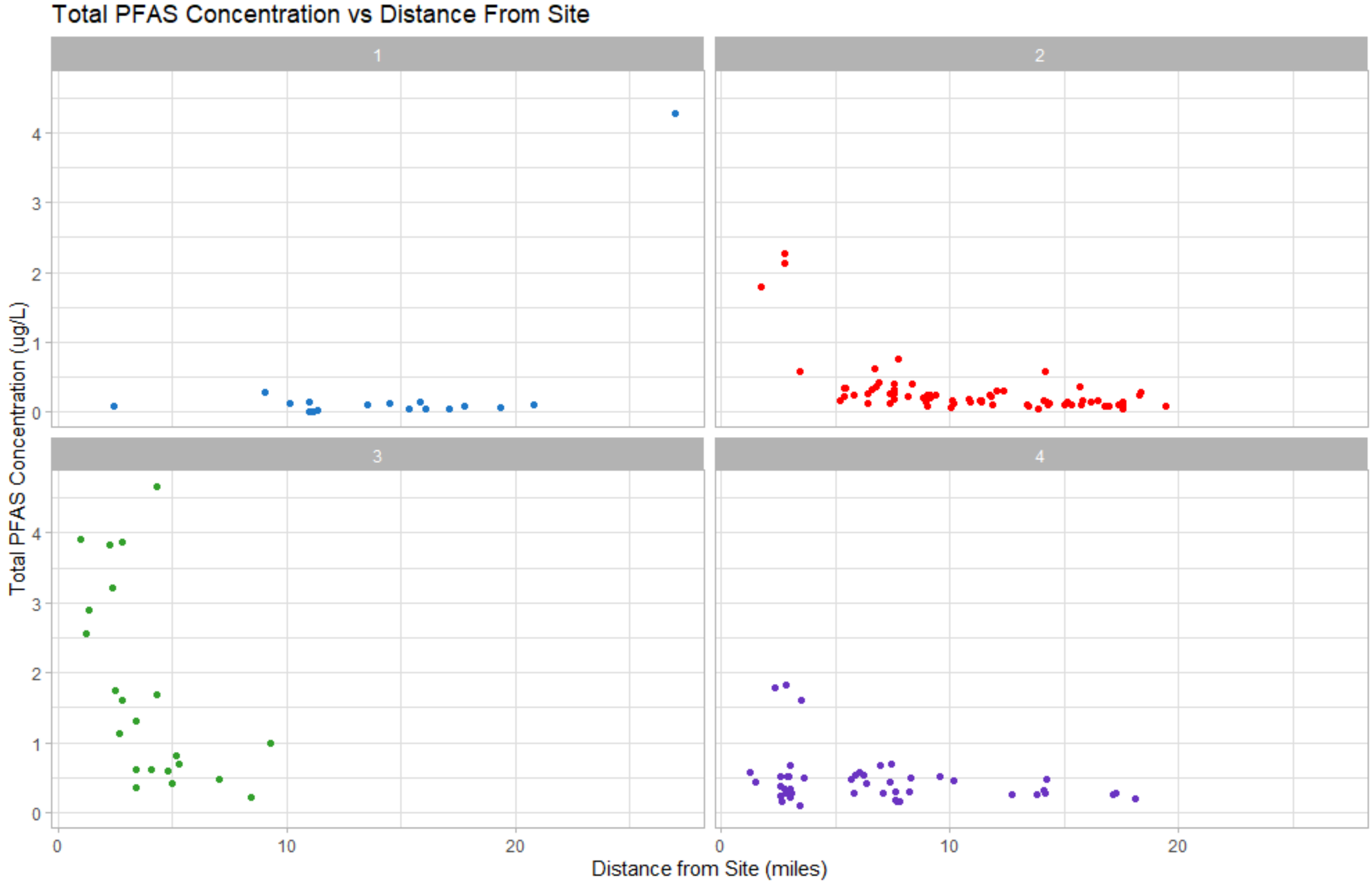
2

3

4

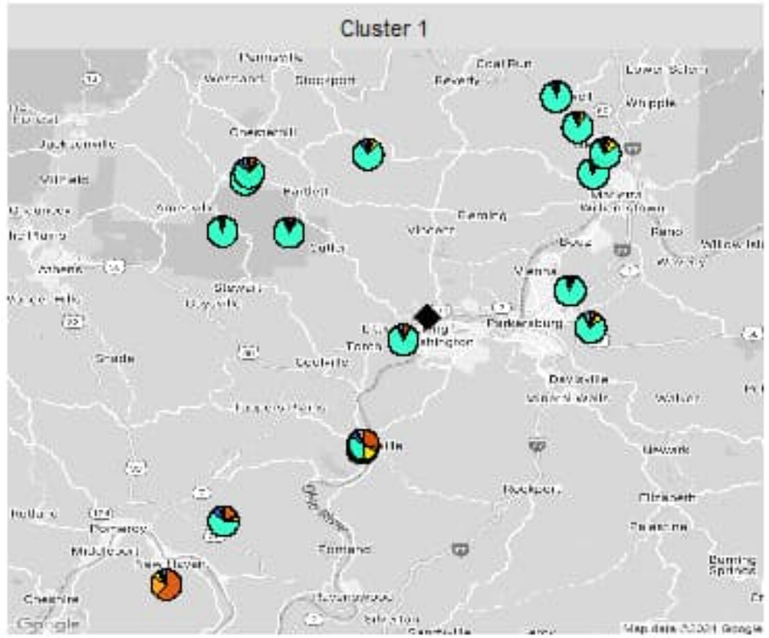
	TASK NUMBER:	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	Sample Locations grouped by Cluster Washington Works PFAS Statistical Forensics Analysis Chemours Washington Works Plant Washington, West Virginia	PROJECT NUMBER: 60713438
	DESIGNED BY: J. MCCURDY			DATE: 7/29/2024
	DRAWN BY: J. MCCURDY			FIGURE NUMBER: 4-1
	DATA QUALITY CHECK BY: S. HESSION			

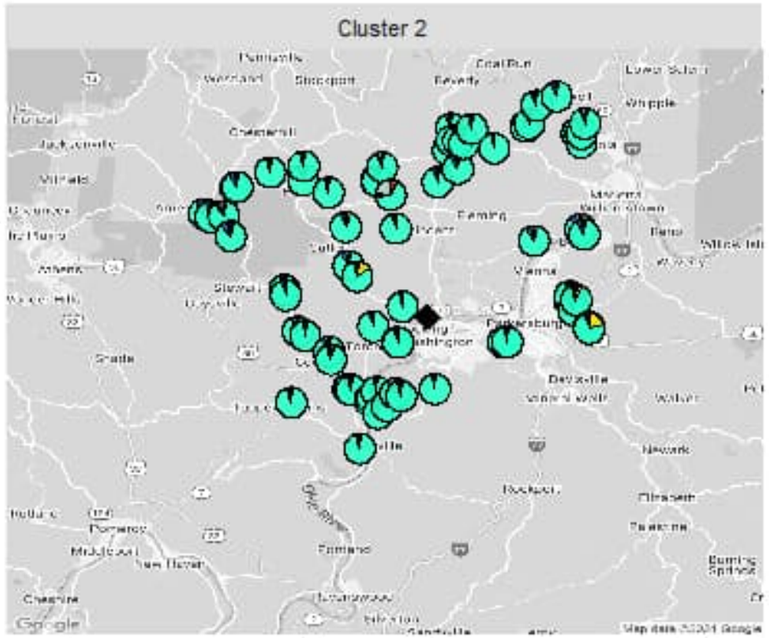
C:\Users\tanawag\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_PFASStatisticalForensicsAnalysis_Jul2024\Fig 4-1_Sample Locations grouped by Cluster.mxd

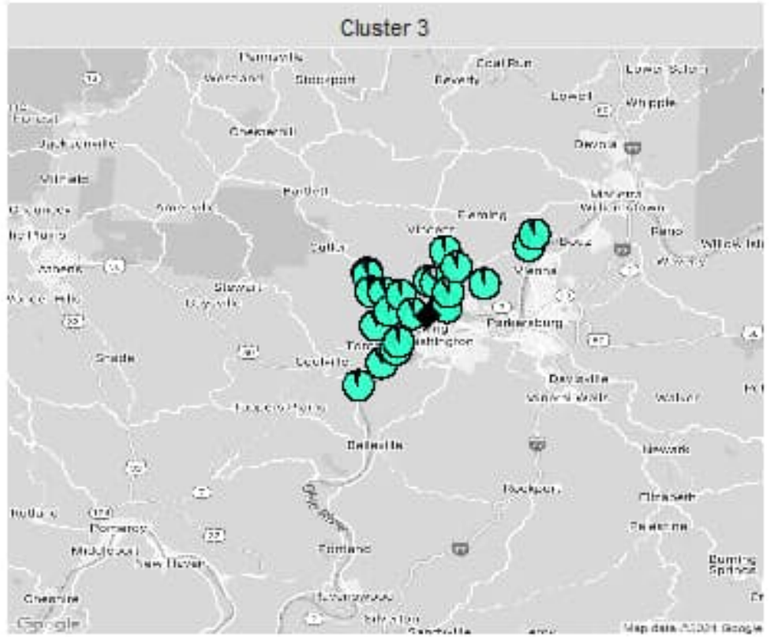


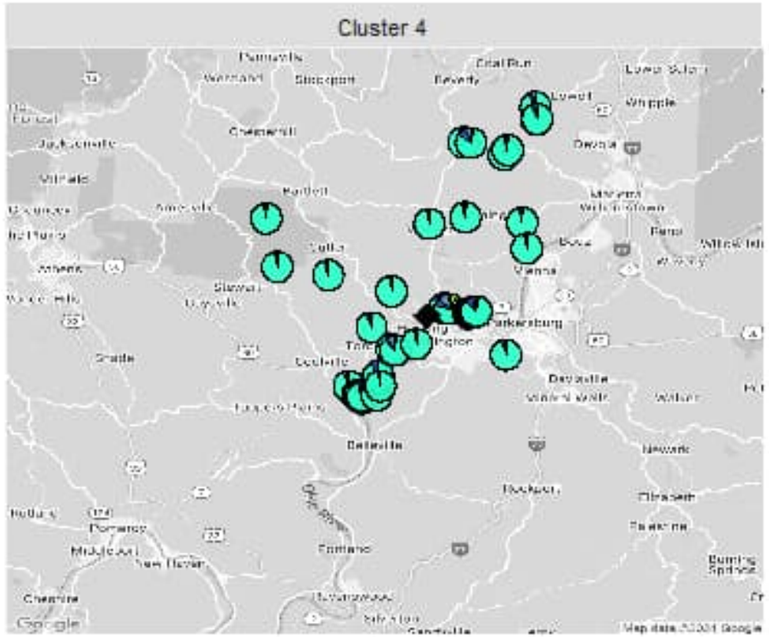
TASK NUMBER:	AECOM	Total PFAS Concentration vs Distance From Site	PROJECT NUMBER: 60713438
DESIGNED BY: J. MCCURDY	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	Washington Works PFAS Statistical Forensics Analysis Chemours Washington Works Plant Washington, West Virginia	DATE: 7/29/2024
DRAWN BY: J. MCCURDY			FIGURE NUMBER: 4-2
DATA QUALITY CHECK BY: S. HESSION			

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_PFASStatisticalForensicsAnalysis_Jul2024\Fig 4-2_Total PFAS Concentration vs Distance From Site.mxd









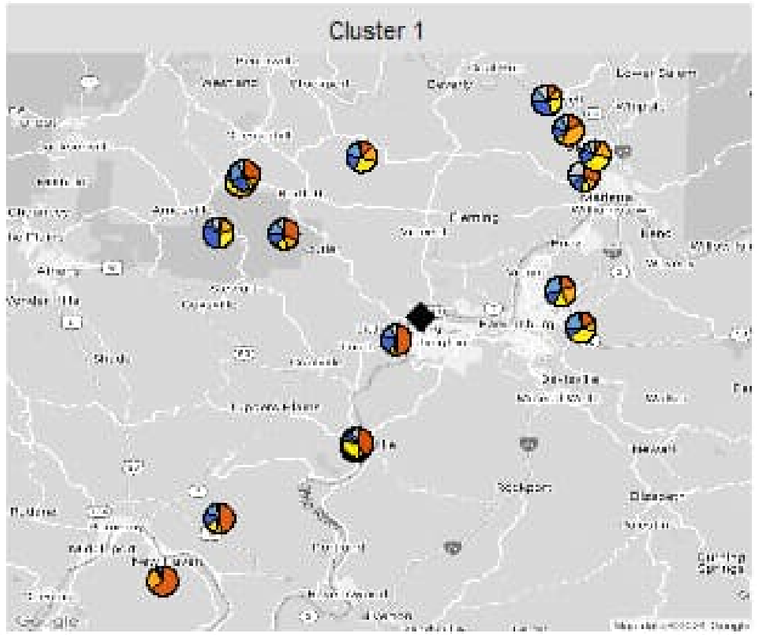
WW Site

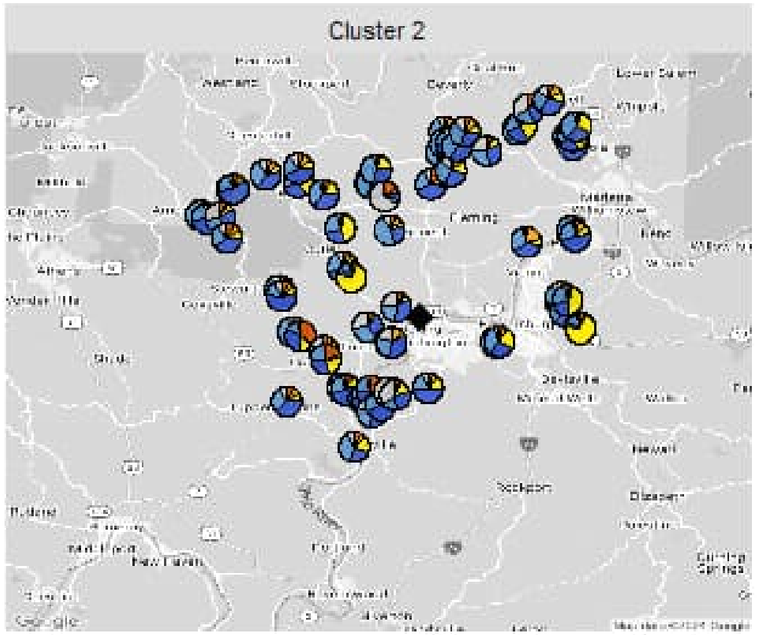
Analyte

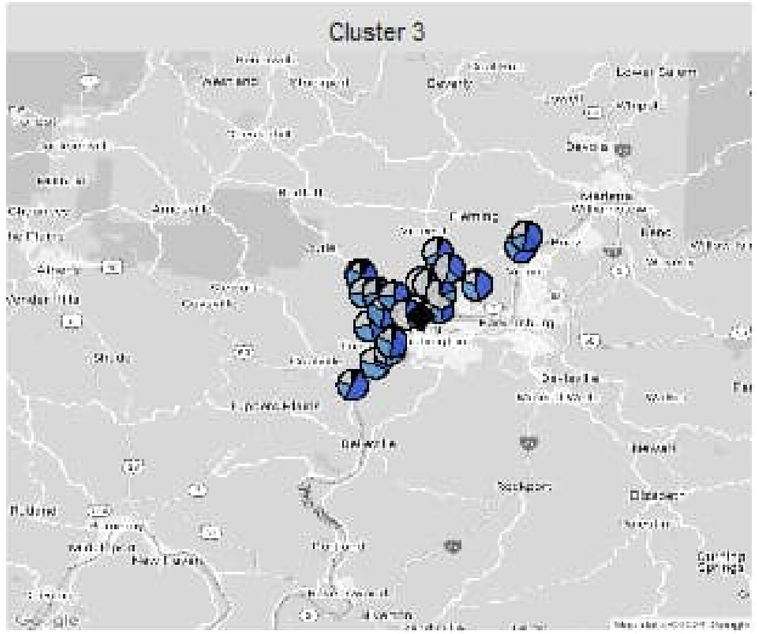
- PFOS
- PFHxS
- PFBS
- PFOA
- PFHpA
- PFHxA
- HFPO.DA

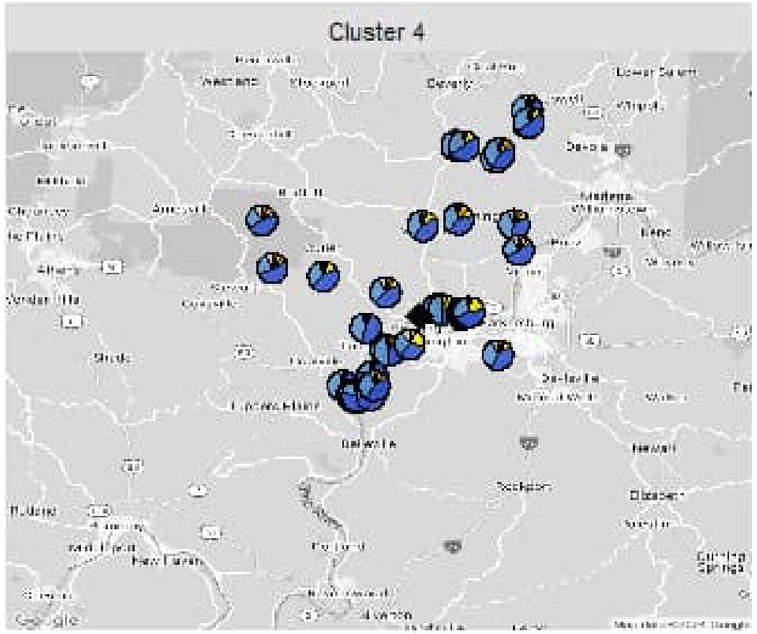
C:\Users\tanasegr\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_PFASStatisticalForensicsAnalysis_Jul2024\Fig 4-3_PFAS Sample Compositions grouped by Cluster.mxd

	TASK NUMBER:	AECOM 248 Chapman Road Suite 101 Newark, DE 19702	PFAS Sample Compositions grouped by Cluster Washington Works PFAS Statistical Forensics Analysis Chemours Washington Works Plant Washington, West Virginia	PROJECT NUMBER: 60713438
	DESIGNED BY: J. MCCURDY			DATE: 7/29/2024
	DRAWN BY: J. MCCURDY			FIGURE NUMBER: 4-3
	DATA QUALITY CHECK BY: S. HESSION			









Analyte

- PFOS
- PFHxS
- PFBS
- PFHpA
- PFHxA
- HFPO.DA

WW Site

C:\Users\tanaseg\AECOM\EC GIS Services - DCS AMERICAS\Chemours\Washington Works\GIS\Projects\60713438_PFASStatisticalForensicsAnalysis_Jul2024\Fig 4-4_PFAS Sample Compositions grouped by Cluster, with PFOA Excluded.mxd

TASK NUMBER:	
DESIGNED BY:	J. MCCURDY
DRAWN BY:	J. MCCURDY
DATA QUALITY CHECK BY:	S. HESSION

AECOM
248 Chapman Road
Suite 101
Newark, DE 19702

PFAS Sample Compositions grouped by Cluster, with PFOA Excluded

Washington Works PFAS Statistical Forensics Analysis
Chemours Washington Works Plant
Washington, West Virginia

PROJECT NUMBER:	60713438
DATE:	7/29/2024
FIGURE NUMBER:	4-4

Appendix A

Chemours Washington Works Site – Drinking Water PFAS Data Set

Regulatory Location ID[1]	Location ID	Date Sampled	Field Sample ID	Latitude (Decimal)	Longitude (Decimal)	DistWW_mi[2]	Units	Sample Purpose	TotalPFAS[3]	PFOS	PFOS_detect	PFOA	PFOA_detect	PFHxA	PFHxA_detect	PFHxS	PFHxS_detect	PFHpA	PFHpA_detect	PFBS	PFBS_detect	HFPO-DA	HFPO-DA_detect	detect_count	per_PFOS[4]	per_PFOA[4]	per_PFHxA[4]	per_PFHpA[4]	per_PFBS[4]	per_HFPO-DA[4]	X_PFOS[5]	X_PFOA[5]	X_PFHxA[5]	X_PFHxS[5]	X_PFHpA[5]	X_PFBS[5]	X_HFPO-DA[5]	Cluster[6]
1000	857SouthlandCemeteryRd	2022-04-26 00:00:00	0422-857SouthlandCemetery	39.36925	-81.833	10.99807216	UG/L	FS	0.1426	0.0074	TRUE	0.12	TRUE	0.0019	TRUE	0.0033	TRUE	0.0036	TRUE	0.0025	TRUE	0.0019	TRUE	7	0.05189341	0.84151473	0.02734923	0.02314165	0.02524544	0.01753156	0.01332398	0.26105868	0.34070042	-0.37944477	-0.54649885	-0.45948747	-0.42483179	-0.1098567432	1
1043	4371StR160	2022-05-02 00:00:00	0502-4371StR160	39.46171	-81.466	17.11105759	UG/L	FS	0.0394067	0.00069342	TRUE	0.034	TRUE	0.00073628	TRUE	0.0035	TRUE	0.0017	TRUE	0.0035	TRUE	0.00087701	TRUE	7	0.01759644	0.76129165	0.01808413	0.04821514	0.04313986	0.08881735	0.02225544	-1.08368434	2.6836339	1.02370196	-0.0757096	-0.19893523	0.535199449	-0.8487962596	1
1009	20500SandRockRd	2022-05-24 00:00:00	0522-20500SandRockRd	39.36519	-81.899	13.82669391	UG/L	FS	0.0553809	0.00074249	FALSE	0.047	TRUE	0.0021	TRUE	0.00075265	FALSE	0.0033	TRUE	0.00062343	FALSE	0.00086237	FALSE	3	0.01340688	0.84866748	0.03791919	0.01359039	0.05958729	0.01125721	0.01557156	-0.9525394	3.19535981	0.08714956	-0.0389444	0.53913468	-1.127299909	-0.802861151	2
1013	2092BrowningRd	2022-05-31 00:00:00	0522-2092BrowningRd	39.42873	-81.7287	11.28563806	UG/L	FS	0.1750353	0.0019	TRUE	0.16	TRUE	0.0047	TRUE	0.00076085	FALSE	0.0015	TRUE	0.00077441	FALSE	0.0018	TRUE	5	0.01085496	0.91410154	0.02685173	0.00434681	0.02913699	0.00442433	0.01028364	-0.6370951	3.79622483	0.26861352	-1.55227429	0.35029155	-1.534598818	-0.691162233	2
993	290MasonicPark Ln-PT	2022-05-18 00:00:00	0522-290MasonicPark Ln-PT	39.48419	-81.4923	17.52018973	UG/L	FS	0.0566463	0.00076485	TRUE	0.047	TRUE	0.0021	TRUE	0.00079955	FALSE	0.0025	TRUE	0.0024	TRUE	0.00097194	FALSE	4	0.01350215	0.82970936	0.0406028	0.01225297	0.04413348	0.04236814	0.01715811	-1.10167252	3.01555377	-0.00068471	-1.17677131	0.0826969	0.04189749	-0.862051029	2
1017	38655FirehouseDr	2022-06-21 00:00:00	0622-38655FirehouseDr	39.11815	-81.7491	11.37239777	UG/L	FS	0.1521061	0.00075141	FALSE	0.14	TRUE	0.0045	TRUE	0.00078712	FALSE	0.0031	TRUE	0.0021	TRUE	0.00086757	FALSE	4	0.00494004	0.92041011	0.02958461	0.00517483	0.02038051	0.01380615	0.00570374	-1.37892171	3.84852359	0.41095856	-1.33248857	0.03828327	-0.35118149	-1.235173645	2
1020	13926TickRidgeRd	2022-06-29 00:00:00	0622-13926TickRidgeRd	39.38862	-81.9073	15.02391194	UG/L	FS	0.1000125	0.00070838	FALSE	0.088	TRUE	0.0041	TRUE	0.00055903	FALSE	0.0026	TRUE	0.00064508	FALSE	0.0034	TRUE	4	0.00708291	0.87989009	0.04099488	0.00558962	0.02599675	0.00644999	0.03399575	-1.302333	3.51977901	0.45342916	-1.53910676	-0.00204636	-1.395039966	0.266217622	2
1021	1737OldwealdRd	2022-07-12 00:00:00	0722-1737OldwealdRd	39.43882	-81.8795	16.06641845	UG/L	FS	0.041204	0.0031	TRUE	0.031	TRUE	0.0021	TRUE	0.00074565	FALSE	0.0023	TRUE	0.0016	TRUE	0.00086056	FALSE	4	0.07523353	0.75235353	0.05096751	0.01693619	0.02798525	0.02188522	-2.3185771	4.81066436	2.72007483	0.56466853	-0.0809841	-1.17677131	0.0826969	0.041987497	2
1024	28198RockRunRd	2022-08-10 00:00:00	0822-28198RockRunRd	39.18782	-81.7626	7.57681208	UG/L	FS	0.4065579	0.0069	TRUE	0.38	TRUE	0.0055	TRUE	0.00061084	FALSE	0.011	TRUE	0.00064705	FALSE	0.019	TRUE	5	0.01697175	0.93467623	0.01352821	0.00150248	0.02705642	0.00159153	0.00467338	0.26181516	4.270465	0.03504184	-2.16261872	0.72818902	-2.10503993	-1.027852367	2
1025	28300RockRunRd	2022-08-10 00:00:00	0822-28300RockRunRd	39.18782	-81.7621	7.55943189	UG/L	FS	0.332639	0.00076639	FALSE	0.29	TRUE	0.0077	TRUE	0.00067259	FALSE	0.011	TRUE	0.0035	TRUE	0.02	TRUE	5	0.00203098	0.87181604	0.02314822	0.00202198	0.03006262	0.01052192	0.06012524	-2.20884514	3.72700951	0.0984345	-2.33940732	0.35979927	-0.69002286	1.052946448	2
1027	2065RR124	2022-08-17 00:00:00	0822-2065RR124	39.1859	-81.7582	9.52528869	UG/L	FS	0.2674949	0.00075239	FALSE	0.25	TRUE	0.0022	TRUE	0.00075746	FALSE	0.0022	TRUE	0.0015	TRUE	0.00093135	FALSE	4	0.00341358	0.93320111	0.01875283	0.00561446	0.02810503	0.01549126	0.01549126	-0.1153952	3.12459128	0.10209319	-1.60157158	-0.11238308	-0.41242602	-1.353801626	2
1032	662445tR124	2022-08-23 00:00:00	0822-66244StR124	39.12286	-81.7476	11.04075636	UG/L	FS	0.0181572	0.0032	TRUE	0.0086	TRUE	0.00072146	FALSE	0.00066287	FALSE	0.00089984	FALSE	0.0031	TRUE	0.00097301	FALSE	3	0.17623883	0.47364185	0.03973428	0.03650722	0.0495584	0.17073136	0.05358806	0.65232787	1.64093927	-0.83729784	-0.92200203	-0.61636948	0.62057917	-0.538185964	1
1035	4275AndersonRd	2022-08-24 00:00:00	0822-4275AndersonRd	39.44375	-81.6353	12.04195577	UG/L	FS	0.2986	0.002	TRUE	0.27	TRUE	0.0086	TRUE	0.0025	TRUE	0.009	TRUE	0.0035	TRUE	0.017	TRUE	7	0.00669792	0.90421969	0.02880107	0.0083734	0.03014066	0.01004689	0.01172137	-1.29374166	3.61153311	0.16487336	-1.07059811	0.21033573	-0.88827656	-0.734125876	2
1039	651SpringfordSt	2022-09-12 00:00:00	0922-651SpringfordSt	39.1907	-81.7524	7.67832763	UG/L	FS	0.4853943	0.00069638	FALSE	0.46	TRUE	0.0067	TRUE	0.00061542	FALSE	0.0052	TRUE	0.0025	TRUE	0.0052	TRUE	7	0.00137286	0.94768332	0.01072794	0.00139408	0.01278255	0.00134164	0.01071294	-1.94432242	3.11053447	-1.92886658	1.02664932	0.11035447	-1.928866581	1.026645232	-1.917075703	1
1039	660775tR124	2023-04-05 00:00:00	0423-66077StR124	39.12035	-81.7469	11.18789271	UG/L	FS	0.0159528	0.0035	TRUE	0.0061	TRUE	0.00080829	FALSE	0.00072444	FALSE	0.00088857	FALSE	0.003	TRUE	0.00093153	FALSE	3	0.21939684	0.38237735	0.05066731	0.04541153	0.05569992	0.18805443	0.05839263	0.76199117	1.31751698	-0.70361013	-0.81312503	-0.60891224	0.60784054	-0.561701252	1
1040	705WallaceRd	2023-05-25 00:00:00	0523-705WallaceRd	39.31859	-81.7418	5.00220914	UG/L	FS	0.4142643	0.00075239	FALSE	0.39	TRUE	0.0088	TRUE	0.00076564	FALSE	0.0099	TRUE	0.0034	TRUE	0.0161	TRUE	7	0.00181162	0.94142801	0.02124248	0.0106	0.02389779	0.0018482	0.00820732	-1.80865977	4.4419892	0.65059418	-1.9607241	0.76837722	-1.79119463	-0.300382106	3
1044	2650BraunRd	2023-06-12 00:00:00	0623-2650BraunRd	39.30895	-81.6061	4.33550113	UG/L	FS	4.6607099	0.00070092	FALSE	4.4	TRUE	0.081	TRUE	0.002	TRUE	0.12	TRUE	0.0035	TRUE	0.054	TRUE	6	0.00015039	0.94404472	0.01737936	0.00042912	0.0257472	0.00064368	0.01158624	-3.64059818	5.10411881	1.10920815	-2.59209383	1.50225073	-2.18602872	0.703743038	3
1045	707McDonaldRd	2023-08-07 00:00:00	0823-707McDonaldRd	39.41337	-81.7133	10.05323707	UG/L	FS	0.0720204	0.0041	TRUE	0.046	TRUE	0.0027	TRUE	0.00069695	FALSE	0.0017	TRUE	0.00070343	FALSE	0.017	TRUE	5	0.05694256	0.63862712	0.0249917	0.00970735	0.02361033	0.00979957	0.23610329	-0.19937233	2.41702867	-0.6238278	-1.56979687	-0.6859862	-1.563397522	1.621588898	2
1050	11984StR676	2023-08-23 00:00:00	0823-11984StR676	39.46526	-81.6467	13.4363607	UG/L	FS	0.0979361	0.00073226	FALSE	0.087	TRUE	0.0038	TRUE	0.00069848	FALSE	0.0041	TRUE	0.00062373	FALSE	0.0038	TRUE	3	0.00747689	0.88833446	0.03880082	0.03715324	0.04186404	0.00636872	0.01001984	-1.17604701	3.60148473	0.47057768	-1.22281728	0.54656359	-1.133664488	-0.883296321	2
1051	14537StR7NW	2023-09-13 00:00:00	0923-14537StR7NW	39.35324	-81.5541	8.43121564	UG/L	FS	0.2224145	0.00072348	FALSE	0.2	TRUE	0.005	TRUE	0.00083264	FALSE	0.011	TRUE	0.00065841	FALSE	0.0042	TRUE	4	0.00325284	0.89922183	0.02248055	0.00374363	0.0494572	0.00296029	0.01888366	-1.72596507	3.89603593	0.20715648	-1.58543817	0.99561384	-1.8202061	0.032803093	3
1053	3705GravelBankRd	2023-09-22 00:00:00	0923-3705GravelBankRd	39.35963	-81.5467	10.03089471	UG/L	FS	0.2459439	0.00073306	FALSE	0.21	TRUE	0.0033	TRUE	0.00072705	FALSE	0.0033	TRUE	0.00070781	FALSE	0.0027	TRUE	5	0.00273665	0.85383636	0.02974824	0.00786127	0.03509479	0.00298573	0.00975832	-2.07091351	3.55209479	0.67280388	-1.33397381	-0.15034698	0.373523958	-0.250106858	3
1056	555GravelBankRd	2023-09-22 00:00:00	0923-555GravelBankRd	39.3664	-81.5481	9.28881814	UG/L	FS	0.9963906	0.00068197	FALSE	0.93	TRUE	0.014	TRUE	0.00080866	FALSE	0.031	TRUE	0.0019	TRUE	0.018	TRUE	5	0.00068444	0.93336887	0.01405071	0.00081159	0.03111123	0.00190688	0.0180652	-2.64638131	4.57156852	0.37544127	-2.47599313	1.17037114	-1.62176218	0.626755694	3
1057	1200RoddyRd	2023-09-22 00:00:00	0923-1200RoddyRd	39.37404	-81.7074	7.34528919	UG/L	FS	0.1197815	0.00070339	FALSE	0.11	TRUE	0.0047	TRUE	0.00071654	FALSE	0.0021	TRUE	0.00076228	FALSE	0.0027	TRUE	5	0.00587228	0.91833873	0.03923811	0.00596209	0.07753192	0.00636391	0.00667295	-1.18175016	3.87052741	0.71765455	-1.16322386	-0.08797062	-1.101350882	-1.059391505	3
1059	6502StRt124	2023-09-26 00:00:00	0923-6502StRt124	39.1184	-81.748	11.33856407	UG/L	FS	0.0210781	0.0023	TRUE	0.013	TRUE	0.00074582	FALSE	0.00069007	FALSE	0.0013	TRUE	0.00070781	FALSE	0.0019	TRUE	5	0.01090051	0.59619025	0.03437443	0.03266596	0.03731164	0.01427644	0.01940242	0.35208805	2.03736228	-0.82088631	-0.3285451	-0.73876616	0.603370944	-0.458199707	2
1060	705.5WallaceRd	2023-11-01 00:00:00	1123-705.5WallaceRd	39.32124	-81.7423	5.14290828	UG/L	FS	0.8205567	0.00072468	FALSE	0.74	TRUE	0.0078	TRUE	0.00063325	FALSE	0.0085	TRUE	0.0031	TRUE	0.0085	TRUE	7	0.00088316	0.90507416	0.01216685	0.00381559	0.0243737	0.00077173	0.01035882	-2.17350326	4.80781691	0.45110808	-2.20990132	1.14425526	-2.30836483	0.288589153	3
1062	2685IndianRunRd	2023-12-18 00:00:00	1223-2685IndianRunRd	39.43775	-81.4798	15.37809307	UG/L	FS	0.0544546	0.0024	TRUE	0.047	TRUE	0.0007515	FALSE	0.00075223	FALSE	0.000832	FALSE	0.00081691	FALSE	0.0019	TRUE	3	0.04407338	0.86310376	0.01380047	0.0138139	0.01527874	0.01503832	0.03489143	0.24498833	3.21966719	-0.91616542	-0.91519225	-0.81440508	-0.83026625	0.011373478	1
1063	2531StanleyMillsRd	2023-12-19 00:00:00	1223-2531StanleyMillsRd	39.3746	-81.7005	7.42917275	UG/L	FS	0.0922609	0.0031	TRUE	0.078	TRUE	0.0021	TRUE	0.00056966	FALSE	0.0021	TRUE	0.00060631	FALSE	0.0054	TRUE	5	0.03583233	0.84498553	0.02274969	0.02345578	0.03141624	0.00873123	0.00961823	0.25559481	2.97788913	0.15622687	-0.02884624	-0.12555369	-0.18220017	0.732001753	3
1066	805MasonicParkRd	2024-01-25 00:00:00	0124-805MasonicParkRd	39.47421	-81.4918	16.96304497	UG/L	FS	0.0916526	0.00072365	FALSE	0.081	TRUE	0.0043	TRUE	0.00073311	FALSE	0.0048	TRUE	0.00059175	FALSE	0.00860	TRUE	5	0.00789554	0.88377199	0.0327323	0.00797682	0.05231167	0.00645648	0.0087952	-1.13556712	3.58233399	0.28649712	-1.12532506	0.75650075	-1.336781101	-1.027658666	2
1067	540MasonicParkLnGarage	2024-01-25 00:00:00	0124-540MasonicParkLnGarage	39.48434	-81.4969	17.39570961	UG/L	FS	0.1167387	0.00065203	FALSE	0.11	TRUE	0.0057	TRUE	0.00072689	FALSE	0.011	TRUE	0.00065841	FALSE	0.005	TRUE	5	0.00558541	0.85661422	0.04882701	0.00624379	0.04283071	0.03169473	0.00820414	-1.63856503	3.39426468	0.52956067	-1.52713545	0.39853241	0.097427331	-1.254084562	2
141	5455StR124	2023-05-05 00:00:00	0523-5455StR124	39.12282342	-81.7469	11.01139566	UG/L	FS	0.0160606	0.0045	TRUE	0.0055	TRUE	0.00075239	FALSE	0.00069387	FALSE	0.0013	TRUE	0.00070781	FALSE	0.0019	TRUE	5	0.02796622	0.34180624	0.04482604	0.04396417	0.05822896	0.01905782	0.01902022	-2.8683083	0.81237525	0.70611446	-0.88538127	-0.52836172	-0.52836172	-0.528361721	3
247	24925MountainBellRd	2024-02-27 00:00:00	0224-24925MountainBellRd	39.25434088	-81.8211753	8.14107484	UG/L	FS	0.2236703	0.0034	TRUE	0.2	TRUE	0.0089	TRUE	0.00075235	FALSE	0.0073	TRUE	0.00078835	FALSE	0.0075	TRUE	5	0.01520095	0.89417337	0.03979071	0.01111777	0.03263733	0.00349589	0.00352459	-0.36600959	3.70853035	0.59626626	-0.67349429	0.39808933	-1.83578057	-1.827603487	2
363	28400RockRunRd	2022-08-10 00:00:00	0822-28400RockRunRd	39.18995	-81.7621	7.44794582	UG/L	FS	0.6940071	0.00075519	FALSE	0.65	TRUE	0.019	TRUE	0.00080664	FALSE	0.021	TRUE	0.00064554	FALSE	0.018	TRUE	4	0.00108816	0.9365898	0.02737724	0.00116195	0.03025906	0.00093016	0.00259363	-2.01222492	4.74553054	1.21299715	-1.94661638	1.13108061	-1.143655159	3
608	2837ABeachDr	2023-10-09 00:00:00	1023-2837ABeachDr	39.27505	-81.6233	2.56725256	UG/L	FS	0.2396612	0.00066123	FALSE	0.18	TRUE	0.033	TRUE	0.00064441	FALSE	0.0016	TRUE	0.00063973	FALSE	0.0023	TRUE	3	0.00275067	0.75043339	0.13759565	0.03576995	0.09588529	0.00305098	0.00352459	-1.99443732	3.66727849	-1.96029349	-1.94098104	-1.87724765	-1.85461041	-1.675449552	4
602	18LoganDr	2023-10-12 00:00:00	1023-18LoganDr	39.28034	-81.6511	1.23034922	UG/L	FS	0.5816043	0.00070426	FALSE	0.5	TRUE	0.014	TRUE	0.0021	TRUE	0.034	TRUE	0.0025	TRUE	0.0023	TRUE	6	0.00121089	0.85969109	0.06877529	0.0036107	0.05845899	0.00429846	0.00395458	-2.57494614	3.99026824	1.4645396	-1.48240251	1.30202067	-1.30804912	-1.391430734	4
87.1	2709BeachDr	2023-05-05 00:00:00	0523-2709BeachDr	39.275851	-81.616133	2.955121526	UG/L	FS	0.5166266	0.00062656	FALSE	0.46	TRUE	0.015	TRUE	0.0026	TRUE	0.026	TRUE	0.0089	TRUE	0.035	TRUE	6	0.00121279	0.89039169	0.02903451	0.00503265	0.05032649	0.01722714	0.00677472	-2.75667775	3.8420563	0.41888001	-1.33365875	0.96892634	-0.10311892	-1.036407226	4
104	110RussellRd-PT	2023-08-18 00:00:00	GC3Q23-110RussellRd-PT	39.46006	-81.7412	13.5474529	UG/L	FS	0.1077643	0.003	TRUE	0.085	TRUE	0.0044	TRUE	0.0036	TRUE	0.0041	TRUE	0.0068	TRUE	0.0086	TRUE	6	0.02783853	0.7887584	0.04082985	0.03340624	0.03804599	0.06310067	0.08802031	-0.54222771	2.80181125	-0.15923546	-0.35990616	-0.22985303	0.276082621	-1.786671503	3
1324	13945HerringRd-PT	2023-08-24 00:00:00	GC3Q23-13945HerringRd-PT	39.33082	-81.7524	6.38977707	UG/L	FS	0.1301614	0.00074756	FALSE	0.12	TRUE	0.0057	TRUE	0.00068478	FALSE	0.0077	TRUE	0.00082347	FALSE	0.0045	TRUE	5	0.00599038	0.9028014	0.04382704	0.04843377	0.06204164	0.03698522	0.11745279	0.05400645	3.35010158	0.48396213	-1.38307734	-0.35607205	-0.360107496	-0.360107496	3
105	29450SawyersRunRd-PT	2023-08-03 00:00:00	GC3Q23-29450SawyersRunRd-PT	39.25818225	-81.73559	3.58389411	UG/L	FS	0.5010237	0.00076553	FALSE	0.47	TRUE	0.013	TRUE	0.00072165	FALSE	0.015	TRUE	0.00064567	FALSE	0.00089088	FALSE	3	0.00152794	0.93807931	0.02594687	0.00144035	0.0299387	0.0012887	0.00177813	-1.73565561	4.68425753	1.09647419	-1.79469178	1.23957504	-1.905942966	-1.584016399	4
132	2100SchoolHouseRd-PT	2023-08-02 00:00:00	GC3Q23-2100SchoolhouseRd-PT	39.29918	-81.7380001	4.08792491	UG/L	FS	0.6134916	0.0021	TRUE	0.57	TRUE	0.015	TRUE	0.000764	FALSE	0.014	TRUE	0.00062759	FALSE	0.011	TRUE	5	0.00342303	0.9291081	0.02445021	0.00145233	0.0228202	0.00102298	0.01793016	-1.27199308	4.33170593	0.69411977	-2.28312231	0.8251269	-2.479802206	0.383964846	3
1327	2709BeachDr-26	2023-09-26 00:00:00	GC3Q23-2709BeachDr-26	39.2762044	-81.6157011	2.58070894	UG/L	FS	0.2280571	0.00070894	FALSE	0.19	TRUE	0.012	TRUE	0.00070757	FALSE	0.0021	TRUE	0.00068019	FALSE	0.0021	TRUE	5	0.00337169	0.83312459	0.05267994	0.00875971	0.08331246	0.00291553	0.01462384	-1.44704333	3.50435048	0.01829063	-1.26239749	0.76701728	-2.09237409	-0.257018	3
716	2766RainbowRd-PT	2023-08-18 00:00:00	GC3Q23-2766RainbowRd-PT	39.49265519	-81.5565331	16.44640323	UG/L	FS	0.1596028	0.00073259	FALSE	0.15	TRUE	0.004	TRUE	0.00073312	FALSE	0.0026	TRUE	0.00063983	FALSE	0.00089728	FALSE	3	0.00459006	0.93983306	0.02506222	0.00459339	0.01629044	0.00400887	0.00562196	-1.19344075	4.12836749	-0.50402656	-1.19271726	0.07324364	-1.32882595	-0.990653742	2
722	7601StR144-PT	2023-08-08 00:00:00	GC3Q23-7601StR144-PT	39.29638371	-81.8349643	8.95990961	UG/L	FS	0.1391971	0.00068621	FALSE	0.13	TRUE	0.0014	TRUE	0.00066077	FALSE	0.0014	TRUE	0.00066077	FALSE	0.00086261	FALSE	3	0.00492976	0.93392762	0.01005768	0.00122045	0.01422601	0.00592029	0.00474701	0.00619702	-1.13983648	4.10427162	-0.4267906	-1.2951483	0.84617508	-1.177612299	-0.911058319	2
724	2825BrooksRd-PT	2023-08-04 00:00:00	GC3Q23-2825BrooksRd-PT	39.27230507	-81.7447901	6.70946347	UG/L	FS	0.2144503	0.00066354	FALSE	0.16	TRUE	0.0054	TRUE	0.00069169	FALSE	0.0026	TRUE	0.00068937	FALSE	0.0088937	FALSE	3	0.00518086	0.93768218	0.01774141	0.00502149	0.02411183	0.00463277	0.00595677	-1.13499727	4.06344311	0.07731213	-1.16624047	0.40273453	-1.246812572	-0.99543946	2
682	2905CampHervidaRd-PT	2023-08-15 00:00:00	GC3Q23-2905CampHervidaRd-PT	39.49053457	-81.6425909	15.193035	UG/L	FS	0.1315428	0.00065614	FALSE	0.12	TRUE	0.0044	TRUE	0.00069688	FALSE	0.0041	TRUE	0.00069872	FALSE	0.00099753	FALSE	3	0.00498606	0.91225045	0.03344918	0.0052521	0.03116856	0.00530831	0.00758334	-1.353846	3.85502105	0.54913385	-1.30226583	0.47851628	-1.291620202	-0.934939143	2
1018	18MasonicParkLn-PT	2023-08-24 00:00:00	GC3Q23-18MasonicParkLn-PT	39.2833675	-81.6599011	7.74168433	UG/L	FS	0.0403073	TRUE	0.027	TRUE	0.0014	TRUE	0.00066574	FALSE	0.0012	TRUE	0.00066574	FALSE	0.0024	TRUE	5	0.00670116	0.94316546	0.03475338	0.02952819	0.05955368	0.01655386	0.03439534	0.13315586	3.19845052	0.15670515	-0.04029236	0.34577529	-0.09543946	-0.095439462	3
710	1161SchoolHouseRd-PT	2023-07-28 00:00:00	GC3Q23-1161SchoolhouseRd-PT	39.29916	-81.7230033	3.38473488	UG/L	FS	0.6157542	0.00070718	FALSE	0.58	TRUE	0.012	TRUE	0.00068631	FALSE	0.0042	TRUE	0.0021	TRUE	0.00098037	FALSE	4	0.00114847	0.94193427	0.01944883	0.00108229	0.0194883	0.00110484	0.01575304	-2.12760774	4.58189674	0.70377528	-2.18649326	0.70377528	-2.186493826	0.490994518	3
716	2766RainbowRd-PT	2023-08-18 00:00:00	GC3Q23-2766RainbowRd-PT	39.49265519	-81.5565331	16.44640323	UG/L	FS	0.1596028	0.00073259	FALSE	0.15	TRUE	0.004	TRUE	0.00073312	FALSE	0.0026	TRUE	0.00063983	FALSE	0.00089728	FALSE	3	0.00459006	0.93983306	0.02506222	0.00459339	0.01629044	0.00400887	0.00562196	-1.19344075	4.12836749	-0.50402656	-1.19271726	0.07324364	-1.32882595	-0.990653742	2
722	7601StR144-PT	2023-08-08 00:00:00	GC3Q23-7601StR144-PT	39.29638371	-81.8349643	8.95990961	UG/L	FS	0.1391971	0.00068621	FALSE	0.13	TRUE	0.0014	TRUE	0.00066077	FALSE	0.0014	TRUE	0.00066077	FALSE	0.00086261	FALSE	3	0.00492976	0.93392762	0.01005768	0.00122045	0.01422601	0.00592029	0.00474701	0.00619702	-1.13983648	4.10427162	-0.4267906	-1.2951483	0.84617508	-1.177612299	-0.911058319	2
744	2825BrooksRd-PT	2023-08-04 00:00:00	GC3Q23-2825BrooksRd-PT	39.27230507	-81.7447901	6.70946347	UG/L	FS	0.2144503	0.00066354	FALSE	0.16	TRUE	0.0054	TRUE	0.00069169	FALSE	0.0026	TRUE	0.00068937	FALSE	0.0088937	FALSE	3	0.00518086	0.93768218	0.01774141	0.00502149	0.02411183	0.00463277	0.00595677	-1.13499727	4.06344311	0.07731213	-1.16624047	0.40273453	-1.246812572	-0.99543946	2
748	2675MuskingumRiverRd-PT	2023-08-30 00:00:00	GC3Q23-2675MuskingumRiver-PT	39.49611194	-81.4875284	18.3497578	UG/L	FS	0.2775393	0.00069695	FALSE	0.25	TRUE	0.0094	TRUE	0.00062463	FALSE	0.0087	TRUE	0.0071	TRUE	0.00101777	FALSE	4	0.00251116	0.9007732	0.03386907	0.0022506	0.03134691	0.02558196	0.0036671	-1.94269662	3.93981033	0.65905911	-2.05224834	0.58167244	0.3784442	-1.564041122	2
753	19223SandRockRd-PT	2023-08-09 00:00:00	GC3Q23-19223SandRockRd-PT	39.38760167	-81.9224387	15.67753963	UG/L	FS	0.3646247	0.004	TRUE	0.34	TRUE	0.0093	TRUE	0.0025	TRUE	0.0092	TRUE	0.0092472	FALSE	0.016	TRUE	6	0.01097018	0.93246557	0.01618102	0.00548509	0.02500568	0.00685636	0.00253609	-0.4353318	3.40731946	-0.04667381	-1.12847898	0.40838824	-0.995335543	-1.898887695	2
763	189-FebruaryRd-PT	2023-08-29 00:00:00	GC3Q23-189-FebruaryRd-PT	39.37061869	-81.9101186	14.15737205	UG/L	FS	0.1199566	0.00065403	FALSE	0.11	TRUE	0.0047	TRUE	0.00067567	FALSE	0.0035	TRUE	0.0025	TRUE	0.0042	TRUE	4	0.00538354	0.91772407	0.03920158	0.01251449	0.03920156	0.01258145	0.01806582	-1.35818024	3.75819093	-0.20160983	-1.07147382	-0.52457079	0.332727007	-0.463145	2
763	7217FrostRd-PT	2023-07-28 00:00:00	GC3Q23-7217FrostRd-PT	39.3025769	-81.8368125	9.14771354	UG/L	FS	0.1993362	0.00078323	FALSE	0.19	TRUE	0.0025	TRUE	0.0015	TRUE	0.003	TRUE	0.00064118	FALSE	0.00091176	FALSE	4	0.0039292	0.95316369	0.01254163	0.00752498	0.01504995	0.00321659	0.00457396	-1.22807644	4.26327533	-0.06745801	-0.57828364	0.11486355	-1.428188867	-1.076131915	2
540	540MasonicParkLn-PT	2023-08-17 00:00:00	GC3Q23-540MasonicParkLn-PT	39.48472753

Appendix A
Chemours Washington Works Site – Drinking Water PFAS Data Set

Regulatory Location ID[1]	Location ID	Date Sampled	Field Sample ID	Latitude (Decimal)	Longitude (Decimal)	DistWW_mi[2]	Units	Sample Purpose	TotalPFAS[3]	PFOS	PFOS_detect	PFOA	PFOA_detect	PFHxA	PFHxA_detect	PFHxS	PFHxS_detect	PFHpA	PFHpA_detect	PFBS	PFBS_detect	HFPO-DA	HFPO-DA_detect	detect_count	per_PFOS[4]	per_PFOA[4]	per_PFHxA[4]	per_PFHxS[4]	per_PFHpA[4]	per_PFBS[4]	per_HFPO-DA[4]	X.PFOS[5]	X.PFOA[5]	X.PFHxA[5]	X.PFHxS[5]	X.PFHpA[5]	X.PFBS[5]	X.HFPO-DA[5]	Cluster[6]
670	91SouthSt-PT	2023-08-29 00:00:00	GC3Q23-91SouthSt-PT	39.24192429	-81.5780563	5.380457272	UG/L	FS	0.2231164	0.00076669	FALSE	0.21	TRUE	0.0039	TRUE	0.00066162	FALSE	0.0037	TRUE	0.0032	TRUE	0.00088805	FALSE	4	0.00343626	0.94121294	0.01747967	0.00296536	0.01658328	0.01434229	0.00398021	-1.46312009	4.14966499	0.16353401	-1.61050702	0.11089028	-0.03429173	-1.3161704	2
672	342SouthSt-PT	2023-08-29 00:00:00	GC3Q23-342SouthSt-PT	39.24183273	-81.5825043	5.162876269	UG/L	FS	0.1702026	0.003	TRUE	0.15	TRUE	0.01	TRUE	0.00077215	FALSE	0.0034	TRUE	0.0021	TRUE	0.0003049	FALSE	5	0.01762605	0.88130246	0.0587535	0.00453663	0.01997619	0.01233823	0.00546693	-0.33666158	3.57536143	0.86731123	-1.69385423	-0.21149843	-0.69333652	-1.5073218	2
706	75HaysDr-PT	2023-08-28 00:00:00	GC3Q23-75HaysDr-PT	39.3018 11	-81.5068	9.046159513	UG/L	FS	0.2807976	0.0057	TRUE	0.25	TRUE	0.0077	TRUE	0.0068	TRUE	0.0044	TRUE	0.0053	TRUE	0.0008976	FALSE	6	0.02029932	0.89032101	0.02742189	0.02421673	0.01566965	0.01887481	0.0031966	-0.2968691	3.48412564	0.00388505	-0.12041266	-0.55573074	-0.36962846	-2.1453697	1
707	739NewbanksRd-PT	2023-08-23 00:00:00	GC3Q23-739NewbanksRd-PT	39.295486	-81.5054	9.029159254	UG/L	FS	0.0829909	0.00070894	FALSE	0.076	TRUE	0.0023	TRUE	0.00070374	FALSE	0.0016	TRUE	0.00076549	FALSE	0.00091277	FALSE	3	0.00854237	0.91576253	0.02771387	0.00847073	0.01927921	0.00922383	0.01099846	-0.99824475	3.67647418	0.17864996	-1.00560378	-0.18425554	-0.92149238	-0.7455276	2
738	59RailroadPathRd-PT	2023-08-25 00:00:00	GC3Q23-59RailroadPathRd-PT	39.37286	-81.46281	11.83599956	UG/L	FS	0.116028	0.00076037	FALSE	0.092	TRUE	0.006	TRUE	0.0043	TRUE	0.0076	TRUE	0.0044	TRUE	0.00096762	FALSE	5	0.00655336	0.79291212	0.05171166	0.03706002	0.06550144	0.03792188	0.00833952	-1.84181074	2.95392409	0.22389498	-0.10924946	0.46028376	-0.08625994	-1.6007826	2
800	190HarrisFerryRd-PT	2023-08-23 00:00:00	GC3Q23-190HarrisFerryRd-PT	39.177963	-81.74644	7.611687175	UG/L	FS	0.299534	0.00068395	FALSE	0.28	TRUE	0.0036	TRUE	0.00076119	FALSE	0.013	TRUE	0.00077775	FALSE	0.00071114	FALSE	3	0.00228337	0.93478532	0.01201867	0.00254123	0.04340075	0.00259652	0.00237415	-1.55640198	4.45826457	0.10440882	-1.44940368	1.38842433	-1.42787963	-1.5174124	4
841	119WhisperingOaksLn-PT	2023-08-28 00:00:00	GC3Q23-119WhisperingOaks-PT	39.259144	-81.48296	10.11575996	UG/L	FS	0.1249917	0.0055	TRUE	0.097	TRUE	0.0067	TRUE	0.0022	TRUE	0.0029	TRUE	0.0099	TRUE	0.00079173	FALSE	6	0.04400291	0.77605133	0.05360355	0.01760116	0.02320153	0.07920524	0.00633427	-0.02292857	2.84703432	0.17443087	-0.9392193	-0.66296592	0.5648581	-1.961209	1
883	445sniderHillRd-PT	2023-08-28 00:00:00	GC3Q23-445sniderRd-PT	39.259766	-81.48336	10.09084182	UG/L	FS	0.1670229	0.0025	TRUE	0.13	TRUE	0.0044	TRUE	0.0015	TRUE	0.0017	TRUE	0.026	TRUE	0.00092291	FALSE	6	0.01496801	0.77833635	0.02634369	0.0089808	0.01017824	0.15566727	0.00552563	-0.70933676	3.24190696	-0.14402295	-1.22016238	-1.09499924	1.63246905	-1.7058546	2
896	301WhisperingOaksLn-PT	2023-08-25 00:00:00	GC3Q23-301WhisperingOaks-PT	39.25771	-81.4827	10.13848397	UG/L	FS	0.133537	0.0014	TRUE	0.1	TRUE	0.0046	TRUE	0.00067319	FALSE	0.002	TRUE	0.024	TRUE	0.00086383	FALSE	5	0.01048398	0.748856	0.03444738	0.00504121	0.01497712	0.17972544	0.00646887	-1.06306967	3.20562828	0.1265144	-1.79527267	-0.70639472	1.77851193	-1.5459175	2
903	7295NewEnglandRidgeRd-PT	2023-08-23 00:00:00	GC3Q23-7295NewEnglandRidg-PT	39.175	-81.738	7.559851654	UG/L	FS	0.325903	0.00074953	FALSE	0.31	TRUE	0.0042	TRUE	0.0024	TRUE	0.0059	TRUE	0.0017	TRUE	0.00095348	FALSE	5	0.00229985	0.95120325	0.01288727	0.00736415	0.01810355	0.00521628	0.00292565	-1.71927583	4.30560706	0.00411929	-0.5554965	0.34398712	-0.90033698	-1.4786047	2
910	1030NewbanksRd-PT	2023-08-30 00:00:00	GC3Q23-1030NewbanksRd-PT	39.29115	-81.5063	8.931496881	UG/L	FS	0.203123	0.0026	TRUE	0.19	TRUE	0.0034	TRUE	0.00073203	FALSE	0.0031	TRUE	0.0023	TRUE	0.00099097	FALSE	5	0.01280013	0.93539382	0.01673863	0.00360386	0.01526169	0.01132319	0.00487868	-0.34014812	3.9513645	-0.07189414	-1.60759659	-0.16425746	-0.46275044	-1.3047277	2
939	5843NewEnglandRidge-PT	2023-08-23 00:00:00	GC3Q23-5843NewEnglandRidg-PT	39.19	-81.7253	6.326316496	UG/L	FS	0.425909	0.00074008	FALSE	0.41	TRUE	0.0055	TRUE	0.00075475	FALSE	0.0073	TRUE	0.00071661	FALSE	0.00089755	FALSE	3	0.00173766	0.96264697	0.01291356	0.0017721	0.01713981	0.00168253	0.00210737	-1.54172014	4.77542763	0.46401856	-1.52209388	0.74714481	-1.57395957	-1.3488174	4
999	39SchultzLn-PT	2023-08-23 00:00:00	GC3Q23-39SchultzLn-PT	39.17934	-81.7297	7.088967585	UG/L	FS	0.2721491	0.00058932	FALSE	0.26	TRUE	0.0028	TRUE	0.00068447	FALSE	0.0065	TRUE	0.00066414	FALSE	0.00091113	FALSE	3	0.00216542	0.95535883	0.01028848	0.00251505	0.02388397	0.00244036	0.00334789	-1.5362004	4.55327268	0.02221047	-1.38652284	0.86439323	-1.41667007	-1.1004837	4

1. Regulatory Location ID = a number assigned to each sampling location
2. DistWW_mi = the calculated distance from a center point on the Washington Works Plant to the sampling location in miles
3. PFAS = per- and polyfluoroalkyl substances [PFOS = perfluorooctane sulfonic acid , PFOA = perfluorooctanoic acid, PFHxA = perfluorohexanoic acid , PFHxS = perfluorohexane sulfonic acid , PFHpA = perfluoroheptanoic acid, PFBS = perfluorobutane sulfonic acid, HFPO-DA = hexafluoropropylene oxide dimer acid (also commonly referred to as GenX)]
4. per_ = composition of PFAS compound relative to the total PFAS. See Section 2.0 of the Washington Works PFAS Statistical Forensics Analysis report (dated July 2024) for a detailed explanation.
5. X. = centered log ratio transformation of the PFAS compositional data. See Section 2.0 of the Washington Works PFAS Statistical Forensics Analysis report (dated July 2024) for a detailed explanation.
6. Cluster = See Section 2.0 of the *Washington Works PFAS Statistical Forensics Analysis* report (dated July 2024) for a detailed explanation.