

**Final Test Report
for**

2022 05 Tilden Mine EUKILN1 ICR V2

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this test report are true, accurate, and complete.

Permitted Facility Representative / Date

Name: Ryan Korpela
Title: General Manager
Company: Cleveland-Cliffs Inc. Tilden Mining C
Sign Date: 8/16/2022

I have reviewed all testing details and results in this test report and hereby certify that the test report is authentic and accurate.

Testing Company Representative / Date

Name: David Engelhardt
Title: Vice President
Company: Network Environmental Incorporate
Sign Date: 8/16/2022

8/16/2022

Facility Information:

| | | |
|----------------------------|----|--------|
| Tilden Mining Company L.C. | | |
| 1 Tilden Mine Road | | |
| | | |
| Ishpeming | MI | 49849- |

| | |
|----------------|-----------------------------------|
| Contact | Brent Ketzenberger |
| Phone: | (906) 475-3792 |
| Fax: | |
| Email: | Brent.ketzenberger@clevelandcliff |

Testing Company:

| | | |
|----------------------------|----|--------|
| Network Environmental Inc. | | |
| 2629 Remico, SW | | |
| Suite B | | |
| Grand Rapids | MI | 49519- |

| | |
|----------------|-------------------|
| Contact | Stephan K. Byrd |
| Phone: | (616) 530-6330 |
| Fax: | |
| Email: | netenviro@aol.com |

| | | | | | |
|--------------------------|--------|---------------|--|---------------|--------------|
| Industry/SCC/NAIS | 212210 | AFS #: | | FRS #: | 110041006416 |
|--------------------------|--------|---------------|--|---------------|--------------|

Air Permit Number:

| |
|--------------------|
| MI-ROP-B4885-2017b |
|--------------------|

Permitted Source ID/Name:

| | |
|---------|--------------------------------------|
| EUKILN1 | Unit 1 Grate Kiln Indurating Furnace |
|---------|--------------------------------------|

Permitted Maximum Process Rate: Max. Normal Operation Process Rate: Target Process Test Rate

| | | |
|----|----|-----------|
| NA | NA | >500 LTPH |
|----|----|-----------|

| | | |
|--------------------------|----------|---|
| SCC / Description | 30302350 | Industrial Processes - Primary Metal Production - Taconite Iron Ore Processing - Grate/Kiln Furnace Discharge |
|--------------------------|----------|---|

The following state and federal regulations that apply to the proposed testing:

Description of the source (including control equipment). Please see the attachments for source or process flow diagram:

Unit 1 Grate Kiln Indurating Furnace dries and preheats pellets on a traveling grate and then heats the pellets in a rotary kiln for final induration. Unit 1 main burners are rated at 590 million BTU per hour heat input. Unit 1 is fired with natural gas or a mix of coal and natural gas. The unit is controlled with dry electrostatic precipitators.

Sampling Location Information:

| Location | Round Duct Diam. | Rect. Duct Length /Width | | Equiv. Diam | DownStream Distance from Disturbance (Distance B): | UpStream Distance from Disturbance: | Number of Traverse Ports | Min.Travers Points |
|---------------------------------|------------------|--------------------------|--|-------------|--|-------------------------------------|--------------------------|--------------------|
| EUKILN1 North Stack | 161 | | | | 654 | 675 | 4 | 24 |
| | | | | | | | | |
| EUKILN1 North Stack HCL HF Test | 161 | | | | 654 | 675 | 4 | 24 |
| | | | | | | | | |

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| | | | | | | | | |
|---------------------------------------|-----|--|--|--|-----|------|---|----|
| EUKILN1 South Stack | 233 | | | | 982 | 1358 | 4 | 24 |
| | | | | | | | | |
| EUKILN1 South Stack HCL HF Test | 233 | | | | 982 | 1358 | 4 | 24 |
| | | | | | | | | |

Test Parameter Information:

| Location | Target Parameter | Test Method | Number of Test Runs | Test Run Duration | Comments |
|---------------------------------------|------------------------|---------------|---------------------|-------------------|--------------------|
| EUKILN1 North Stack HCL HF Test | Flowrate | Method 1 - 4 | 3 | 90 | With each test run |
| EUKILN1 North Stack HCL HF Test | % Moisture | Method 1 - 4 | 3 | 90 | With each test run |
| EUKILN1 North Stack HCL HF Test | Carbon Monoxide | Method 10 | 3 | 90 | With each test run |
| EUKILN1 North Stack HCL HF Test | Hydrogen Chloride | Method 26A | 3 | 96 | >2 dscm |
| EUKILN1 North Stack HCL HF Test | Hydrogen Fluoride | Method 26A | 3 | 96 | >2 dscm |
| EUKILN1 North Stack HCL HF Test | Carbon Dioxide | Method 3A CO2 | 3 | 90 | With each test run |
| EUKILN1 North Stack HCL HF Test | Oxygen | Method 3A O2 | 3 | 90 | With each test run |
| EUKILN1 North Stack | Flowrate | Method 1 - 4 | 7 | 150 | With each test run |
| EUKILN1 North Stack | % Moisture | Method 1 - 4 | 7 | 150 | With each test run |
| EUKILN1 North Stack | Carbon Monoxide | Method 10 | 7 | 150 | With each test run |
| EUKILN1 North Stack | Filterable Particulate | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Antimony | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Antimony Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Antimony Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Arsenic | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Arsenic Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Arsenic Front Half | Method 29 | 7 | 144 | >3 dscm |
| | | | | | |

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| | | | | | |
|------------------------|--|-----------|---|-----|---------|
| EUKILN1 North Stack | Beryllium | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Beryllium Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Beryllium Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Cadmium | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Cadmium Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Cadmium Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Chromium | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Chromium Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Chromium Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Cobalt | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Cobalt Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Cobalt Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Lead | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Lead Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Lead Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Manganese | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Manganese Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Manganese Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Mercury | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Mercury Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Mercury Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Nickel | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Nickel Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Nickel Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Phosphorus (yellow or white) | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Phosphorus (yellow or white) Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Phosphorus (yellow or white) Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Selenium | Method 29 | 7 | 144 | >3 dscm |

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| | | | | | |
|---------------------------------------|------------------------|---------------|---|-----|--------------------|
| EUKILN1 North Stack | Selenium Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Selenium Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 North Stack | Oxygen | Method 3A O2 | 7 | 150 | With each test run |
| EUKILN1 North Stack | Carbon Dioxide | Method 3A CO2 | 7 | 150 | With each test run |
| EUKILN1 South Stack HCL HF Test | Flowrate | Method 1 - 4 | 3 | 90 | With each test run |
| EUKILN1 South Stack HCL HF Test | % Moisture | Method 1 - 4 | 3 | 90 | With each test run |
| EUKILN1 South Stack HCL HF Test | Carbon Monoxide | Method 10 | 3 | 90 | With each test run |
| EUKILN1 South Stack HCL HF Test | Hydrogen Fluoride | Method 26A | 3 | 96 | >2 dscm |
| EUKILN1 South Stack HCL HF Test | Hydrogen Chloride | Method 26A | 3 | 96 | >2 dscm |
| EUKILN1 South Stack HCL HF Test | Carbon Dioxide | Method 3A CO2 | 3 | 90 | With each test run |
| EUKILN1 South Stack HCL HF Test | Oxygen | Method 3A O2 | 3 | 90 | With each test run |
| EUKILN1 South Stack | Flowrate | Method 1 - 4 | 7 | 150 | With each test run |
| EUKILN1 South Stack | % Moisture | Method 1 - 4 | 7 | 150 | With each test run |
| EUKILN1 South Stack | Carbon Monoxide | Method 10 | 7 | 150 | With each test run |
| EUKILN1 South Stack | Filterable Particulate | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Antimony | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Antimony Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Antimony Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Arsenic | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Arsenic Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Arsenic Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Beryllium | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Beryllium Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Beryllium Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Cadmium | Method 29 | 7 | 144 | >3 dscm |

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| | | | | | |
|---------------------|---|---------------|---|-----|--------------------|
| EUKILN1 South Stack | Cadmium Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Cadmium Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Chromium | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Chromium Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Chromium Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Cobalt | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Cobalt Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Cobalt Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Lead | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Lead Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Lead Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Manganese | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Manganese Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Manganese Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Mercury | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Mercury Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Mercury Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Nickel | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Nickel Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Nickel Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Phosphorus (yellow or white) | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Phosphorus (yellow or white) Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Phosphorus (yellow or white) Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Selenium | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Selenium Back Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Selenium Front Half | Method 29 | 7 | 144 | >3 dscm |
| EUKILN1 South Stack | Carbon Dioxide | Method 3A CO2 | 7 | 150 | With each test run |
| EUKILN1 South Stack | Oxygen | Method 3A O2 | 7 | 150 | With each test run |

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The following describes any modifications and/or deviations to the applicable test methods. If alternative methods were requested, see the attachments for documentation of request AND approval, including dates.

Phosphorous results were corrected for the full amount reported in the corresponding sample blank due to substantial contamination in the sample reagent.

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Sampling / Stack Data Results Summary

Location EUKILN1 North Stack - Method 10

| | | | | <u>Average</u> |
|------------------------------------|-------------|------------|-------------|----------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 2.0615 | 2.1646 | 2.0793 | 2.102 |
| Oxygen, % | 18.406 | 18.2043 | 19.1624 | 18.591 |
| Dry Volumetric Flow Rate, dry scfm | 235443.1 | 245461.9 | 234640.8 | 238,515.267 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 9.474 | 9.8487 | 9.3675 | 9.563 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

Location EUKILN1 North Stack - Method 10 3

| | | | | <u>Average</u> |
|------------------------------------|------------|------------|------------|----------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:35 | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 2.1833 | 2.1041 | 2.2067 | 2.165 |
| Oxygen, % | 19.0615 | 18.9421 | 18.9421 | 18.982 |
| Dry Volumetric Flow Rate, dry scfm | 234455 | 224360.8 | 220785.6 | 226,533.800 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 11.0872 | 10.1428 | 9.7481 | 10.326 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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Location EUKILN1 North Stack - Method 10 3 6

| | | <u>Average</u> |
|------------------------------------|-------------|-----------------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 2.258 | 2.258 |
| Oxygen, % | 18.9826 | 18.983 |
| Dry Volumetric Flow Rate, dry scfm | 217892.9 | 217,892.900 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 10.5397 | 10.540 |
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |

Location EUKILN1 North Stack - Method 29

| | | | | <u>Average</u> |
|---|-------------|------------|-------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:00 PM | 3:46:00 PM | 10:21:00 AM | |
| Run Finish Time | 2:55:00 PM | 6:22:00 PM | 12:54:00 PM | |
| Net Run Time, minutes | 144 | 144 | 144 | |
| Dry Gas Meter Volume Sampled, dscf | 124.361 | 130.787 | 124.094 | 126.414 |
| Moisture Content of Stack Gas, % | 9.4740 | 9.8487 | 9.3675 | 9.563 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Carbon Dioxide, % | 2.0615 | 2.1646 | 2.0793 | 2.102 |
| Oxygen, % | 18.406 | 18.2043 | 19.1624 | 18.591 |
| Average Stack Gas Temperature, °F | 310.04 | 313.29 | 320.79 | 314.707 |
| Square Root of Average Velocity, inches of H2O | 0.6947 | 0.7194 | 0.6979 | 0.704 |
| Dry Volumetric Flow Rate, dry scfm | 235,443.1 | 245,461.9 | 234,640.8 | 238,515.267 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 402,933.0 | 423,631.0 | 408,022.7 | 411,528.900 |
| Percent Isokinetic of Sampling Rate, % | 99.6 | 100.5 | 99.7 | 99.933 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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Location EUKILN1 North Stack - Method 29 3

| | | | | <u>Average</u> |
|---|------------|------------|------------|-----------------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:54:00 PM | 10:34:00 | 2:11:00 PM | |
| Run Finish Time | 4:30:00 PM | 1:08:00 PM | 4:43:00 PM | |
| Net Run Time, minutes | 144 | 144 | 144 | |
| Dry Gas Meter Volume Sampled, dscf | 125.552 | 119.059 | 116.572 | 120.394 |
| Moisture Content of Stack Gas, % | 11.0872 | 10.1428 | 9.7481 | 10.326 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Carbon Dioxide, % | 2.1833 | 2.1041 | 2.2067 | 2.165 |
| Oxygen, % | 19.0615 | 18.9421 | 18.9421 | 18.982 |
| Average Stack Gas Temperature, °F | 319.17 | 307.00 | 303.29 | 309.820 |
| Square Root of Average Velocity, inches of H2O | 0.6993 | 0.6591 | 0.6529 | 0.670 |
| Dry Volumetric Flow Rate, dry scfm | 234,455.0 | 224,360.8 | 220,785.6 | 226,533.800 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 414,724.1 | 387,918.4 | 378,248.1 | 393,630.200 |
| Percent Isokinetic of Sampling Rate, % | 101.0 | 100.0 | 99.5 | 100.167 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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Location EUKILN1 North Stack - Method 29 3 6

| | | <u>Average</u> |
|---|-------------|-----------------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:30:00 AM | |
| Run Finish Time | 12:02:00 PM | |
| Net Run Time, minutes | 144 | |
| Dry Gas Meter Volume Sampled, dscf | 116.471 | 116.471 |
| Moisture Content of Stack Gas, % | 10.5397 | 10.540 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.000 |
| Carbon Dioxide, % | 2.258 | 2.258 |
| Oxygen, % | 18.9826 | 18.983 |
| Average Stack Gas Temperature, °F | 305.50 | 305.500 |
| Square Root of Average Velocity, inches of H2O | 0.6473 | 0.647 |
| Dry Volumetric Flow Rate, dry scfm | 217,892.9 | 217,892.900 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 374,600.4 | 374,600.400 |
| Percent Isokinetic of Sampling Rate, % | 100.8 | 100.800 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |

Location EUKILN1 North Stack - Method 3A CO2

| | | | | <u>Average</u> |
|------------------------------------|-------------|------------|-------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 2.0615 | 2.1646 | 2.2161 | 2.147 |
| Oxygen, % | 18.406 | 18.2043 | 19.1624 | 18.591 |
| Dry Volumetric Flow Rate, dry scfm | 235443.1 | 245461.9 | 234640.8 | 238,515.267 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 9.474 | 9.8487 | 9.3675 | 9.563 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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Location EUKILN1 North Stack - Method 3A CO2 3

| | | | | <u>Average</u> |
|------------------------------------|------------|------------|------------|----------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 2.2803 | 2.1041 | 2.2067 | 2.197 |
| Oxygen, % | 19.0615 | 18.9421 | 18.9421 | 18.982 |
| Dry Volumetric Flow Rate, dry scfm | 234455 | 224360.8 | 220785.6 | 226,533.800 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 11.0872 | 10.1428 | 9.7481 | 10.326 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

Location EUKILN1 North Stack - Method 3A CO2 3 6

| | | | | <u>Average</u> |
|------------------------------------|-------------|--|--|----------------|
| Run Number | 7 | | | |
| Test Date | 6/17/2022 | | | |
| Run Start Time | 9:29:42 AM | | | |
| Run Finish Time | 12:07:42 PM | | | |
| Carbon Dioxide, % | 2.258 | | | 2.258 |
| Oxygen, % | 18.9826 | | | 18.983 |
| Dry Volumetric Flow Rate, dry scfm | 217892.9 | | | 217,892.900 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | | | 0.000 |
| Moisture, % | 10.5397 | | | 10.540 |
| Fuel Type | | | | |
| Fw | 0 | | | 0.000 |
| Fc | 0 | | | 0.000 |

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Location EUKILN1 North Stack - Method 3A O2

| | <u>Average</u> | | | |
|------------------------------------|-----------------------|------------|-------------|--------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 18.406 | 18.2043 | 19.1624 | 18.591 |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

Location EUKILN1 North Stack - Method 3A O2 3

| | <u>Average</u> | | | |
|------------------------------------|-----------------------|------------|------------|--------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 19.0615 | 18.9421 | 18.9421 | 18.982 |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

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Location EUKILN1 North Stack - Method 3A O2 3 6

| | | <u>Average</u> |
|------------------------------------|-------------|-----------------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 0 | 0.000 |
| Oxygen, % | 18.9826 | 18.983 |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 0 | 0.000 |
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |

Location EUKILN1 North Stack HCL HF Test - Method 10

| | | | | <u>Average</u> |
|------------------------------------|-------------|-------------|------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 2.1833 | 2.1833 | 2.1833 | 2.183 |
| Oxygen, % | 18.9207 | 18.9207 | 18.9207 | 18.921 |
| Dry Volumetric Flow Rate, dry scfm | 249651.8 | 248688.8 | 244679.3 | 247,673.300 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 9.7239 | 10.2461 | 10.3783 | 10.116 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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Location EUKILN1 North Stack HCL HF Test - Method 26A

| | | | | <u>Average</u> |
|---|-------------|-------------|------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:31:00 AM | 12:55:00 PM | 3:08:00 PM | |
| Run Finish Time | 12:16:00 PM | 2:45:00 PM | 4:51:00 PM | |
| Net Run Time, minutes | 96 | 96 | 96 | |
| Dry Gas Meter Volume Sampled, dscf | 87.993 | 87.984 | 86.735 | 87.571 |
| Moisture Content of Stack Gas, % | 9.7239 | 10.2461 | 10.3783 | 10.116 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Carbon Dioxide, % | 2.1833 | 2.1833 | 2.1833 | 2.183 |
| Oxygen, % | 18.9207 | 18.9207 | 18.9207 | 18.921 |
| Average Stack Gas Temperature, °F | 310.08 | 306.54 | 305.42 | 307.347 |
| Square Root of Average Velocity, inches of H2O | 0.7196 | 0.7186 | 0.7074 | 0.715 |
| Dry Volumetric Flow Rate, dry scfm | 249,651.8 | 248,688.8 | 244,679.3 | 247,673.300 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 426,939.3 | 425,836.6 | 418,965.5 | 423,913.800 |
| Percent Isokinetic of Sampling Rate, % | 99.7 | 100.1 | 100.2 | 100.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

Location EUKILN1 North Stack HCL HF Test - Method 3A CO2

| | | | | <u>Average</u> |
|------------------------------------|-------------|-------------|------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 2.1833 | 2.1833 | 2.1833 | 2.183 |
| Oxygen, % | 18.9207 | 18.9207 | 18.9207 | 18.921 |
| Dry Volumetric Flow Rate, dry scfm | 249651.8 | 248688.8 | 244679.3 | 247,673.300 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 9.7239 | 10.2461 | 10.3783 | 10.116 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

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Location EUKILN1 North Stack HCL HF Test - Method 3A O2

| | | | | <u>Average</u> |
|------------------------------------|-------------|-------------|------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 18.9207 | 18.9207 | 18.9207 | 18.921 |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

Location EUKILN1 South Stack - Method 10

| | | | | <u>Average</u> |
|------------------------------------|-------------|------------|-------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 3.4309 | 3.6388 | 3.6388 | 3.570 |
| Oxygen, % | 16.8571 | 16.5597 | 16.9 | 16.772 |
| Dry Volumetric Flow Rate, dry scfm | 481509.2 | 474340 | 449721.1 | 468,523.433 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 12.0244 | 12.8115 | 13.4638 | 12.767 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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Location EUKILN1 South Stack - Method 10 3

| | | | | <u>Average</u> |
|------------------------------------|------------|------------|------------|-----------------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 3.7428 | 3.7428 | 3.7428 | 3.743 |
| Oxygen, % | 16.7 | 16.8862 | 16.9879 | 16.858 |
| Dry Volumetric Flow Rate, dry scfm | 445230.9 | 458202.5 | 461155.1 | 454,862.833 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 14.528 | 13.7447 | 13.4049 | 13.893 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

Location EUKILN1 South Stack - Method 10 3 6

| | | | <u>Average</u> |
|------------------------------------|-------------|--|-----------------------|
| Run Number | 7 | | |
| Test Date | 6/17/2022 | | |
| Run Start Time | 9:29:42 AM | | |
| Run Finish Time | 12:07:42 PM | | |
| Carbon Dioxide, % | 3.8467 | | 3.847 |
| Oxygen, % | 17.1914 | | 17.191 |
| Dry Volumetric Flow Rate, dry scfm | 455383.7 | | 455,383.700 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | | 0.000 |
| Moisture, % | 10.5733 | | 10.573 |
| Fuel Type | | | |
| Fw | 0 | | 0.000 |
| Fc | 0 | | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

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Location EUKILN1 South Stack - Method 29

| | | | | <u>Average</u> |
|---|-------------|------------|-------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:00 PM | 3:46:00 PM | 10:21:00 AM | |
| Run Finish Time | 2:50:00 PM | 6:15:00 PM | 1:03:00 PM | |
| Net Run Time, minutes | 144 | 144 | 144 | |
| Dry Gas Meter Volume Sampled, dscf | 126.962 | 125.160 | 120.024 | 124.049 |
| Moisture Content of Stack Gas, % | 12.0244 | 12.8115 | 13.4638 | 12.767 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Carbon Dioxide, % | 3.4309 | 3.6388 | 3.6388 | 3.570 |
| Oxygen, % | 16.8571 | 16.5597 | 16.9 | 16.772 |
| Average Stack Gas Temperature, °F | 273.63 | 277.38 | 284.58 | 278.530 |
| Square Root of Average Velocity, inches of H2O | 0.6553 | 0.6522 | 0.6339 | 0.647 |
| Dry Volumetric Flow Rate, dry scfm | 481,509.2 | 474,340.0 | 449,721.1 | 468,523.433 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 807,820.0 | 807,109.4 | 780,993.4 | 798,640.933 |
| Percent Isokinetic of Sampling Rate, % | 101.5 | 101.5 | 102.7 | 101.900 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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Location EUKILN1 South Stack - Method 29 3

| | | | | <u>Average</u> |
|---|------------|------------|------------|-----------------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:54:00 PM | 10:34:00 | 2:11:00 PM | |
| Run Finish Time | 4:24:00 PM | 1:06:00 PM | 4:41:00 PM | |
| Net Run Time, minutes | 144 | 144 | 144 | |
| Dry Gas Meter Volume Sampled, dscf | 120.124 | 122.511 | 122.765 | 121.800 |
| Moisture Content of Stack Gas, % | 14.5280 | 13.7447 | 13.4049 | 13.893 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Carbon Dioxide, % | 3.7428 | 3.7428 | 3.7428 | 3.743 |
| Oxygen, % | 16.7 | 16.8862 | 16.9879 | 16.858 |
| Average Stack Gas Temperature, °F | 282.96 | 276.08 | 274.58 | 277.873 |
| Square Root of Average Velocity, inches of H2O | 0.6259 | 0.6451 | 0.6465 | 0.639 |
| Dry Volumetric Flow Rate, dry scfm | 445,230.9 | 458,202.5 | 461,155.1 | 454,862.833 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 781,171.0 | 792,008.3 | 792,363.6 | 788,514.300 |
| Percent Isokinetic of Sampling Rate, % | 103.8 | 102.9 | 102.4 | 103.033 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

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Location EUKILN1 South Stack - Method 29 3 6

| | | <u>Average</u> |
|---|-------------|-----------------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:30:00 AM | |
| Run Finish Time | 11:59:00 AM | |
| Net Run Time, minutes | 144 | |
| Dry Gas Meter Volume Sampled, dscf | 118.849 | 118.849 |
| Moisture Content of Stack Gas, % | 10.5733 | 10.573 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.000 |
| Carbon Dioxide, % | 3.8467 | 3.847 |
| Oxygen, % | 17.1914 | 17.191 |
| Average Stack Gas Temperature, °F | 274.92 | 274.920 |
| Square Root of Average Velocity, inches of H2O | 0.6196 | 0.620 |
| Dry Volumetric Flow Rate, dry scfm | 455,383.7 | 455,383.700 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 751,857.1 | 751,857.100 |
| Percent Isokinetic of Sampling Rate, % | 100.4 | 100.400 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |

Location EUKILN1 South Stack - Method 3A CO2

| | | | | <u>Average</u> |
|------------------------------------|-------------|------------|-------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 3.4309 | 3.6388 | 3.6388 | 3.570 |
| Oxygen, % | 16.8571 | 16.5597 | 16.9 | 16.772 |
| Dry Volumetric Flow Rate, dry scfm | 481509.2 | 474340 | 449721.1 | 468,523.433 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 12.0244 | 12.8115 | 13.4638 | 12.767 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

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Location EUKILN1 South Stack - Method 3A CO2 3

| | <u>Average</u> | | | |
|------------------------------------|-----------------------|------------|------------|-------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 3.7428 | 3.7428 | 3.7428 | 3.743 |
| Oxygen, % | 16.7 | 16.8862 | 16.9879 | 16.858 |
| Dry Volumetric Flow Rate, dry scfm | 445230.9 | 458202.5 | 461155.1 | 454,862.833 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 14.528 | 13.7447 | 13.4049 | 13.893 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

Location EUKILN1 South Stack - Method 3A CO2 3 6

| | <u>Average</u> | |
|------------------------------------|-----------------------|-------------|
| Run Number | 7 | |
| Test Date | 6/16/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 3.8467 | 3.847 |
| Oxygen, % | 17.1914 | 17.191 |
| Dry Volumetric Flow Rate, dry scfm | 455383.7 | 455,383.700 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 10.5733 | 10.573 |
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

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Location EUKILN1 South Stack - Method 3A O2

| | <u>Average</u> | | | |
|------------------------------------|-----------------------|------------|-------------|--------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 16.8571 | 16.5597 | 16.9 | 16.772 |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

Location EUKILN1 South Stack - Method 3A O2 3

| | <u>Average</u> | | | |
|------------------------------------|-----------------------|------------|------------|--------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 16.7 | 16.8862 | 16.9879 | 16.858 |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

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Location EUKILN1 South Stack - Method 3A O2 3 6

| | | <u>Average</u> |
|------------------------------------|-------------|-----------------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 0 | 0.000 |
| Oxygen, % | 17.1914 | 17.191 |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 0 | 0.000 |
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |

Location EUKILN1 South Stack HCL HF Test - Method 10

| | | | | <u>Average</u> |
|------------------------------------|-------------|-------------|------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 3.6232 | 3.6232 | 3.6232 | 3.623 |
| Oxygen, % | 16.9879 | 16.9879 | 16.9879 | 16.988 |
| Dry Volumetric Flow Rate, dry scfm | 462342.3 | 457856.5 | 475023.7 | 465,074.167 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 13.7448 | 13.988 | 14.3169 | 14.017 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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Location EUKILN1 South Stack HCL HF Test - Method 26A

| | | | | <u>Average</u> |
|---|-------------|-------------|------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:31:00 AM | 12:55:00 PM | 3:08:00 PM | |
| Run Finish Time | 12:17:00 PM | 2:42:00 PM | 4:54:00 PM | |
| Net Run Time, minutes | 96 | 96 | 96 | |
| Dry Gas Meter Volume Sampled, dscf | 81.970 | 81.480 | 84.098 | 82.516 |
| Moisture Content of Stack Gas, % | 13.7448 | 13.9880 | 14.3169 | 14.017 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Carbon Dioxide, % | 3.6232 | 3.6232 | 3.6232 | 3.623 |
| Oxygen, % | 16.9879 | 16.9879 | 16.9879 | 16.988 |
| Average Stack Gas Temperature, °F | 277.38 | 274.79 | 273.17 | 275.113 |
| Square Root of Average Velocity, inches of H2O | 0.6481 | 0.6422 | 0.6677 | 0.653 |
| Dry Volumetric Flow Rate, dry scfm | 462,342.3 | 457,856.5 | 475,023.7 | 465,074.167 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 792,363.6 | 784,191.2 | 814,926.4 | 797,160.400 |
| Percent Isokinetic of Sampling Rate, % | 102.3 | 102.7 | 102.2 | 102.400 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

Location EUKILN1 South Stack HCL HF Test - Method 3A CO2

| | | | | <u>Average</u> |
|------------------------------------|-------------|-------------|------------|-----------------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 3.6232 | 3.6232 | 3.6232 | 3.623 |
| Oxygen, % | 16.9879 | 16.9879 | 16.9879 | 16.988 |
| Dry Volumetric Flow Rate, dry scfm | 462342.3 | 457856.5 | 475023.7 | 465,074.167 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 13.7448 | 13.988 | 14.3169 | 14.017 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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Location EUKILN1 South Stack HCL HF Test - Method 3A O2

| | | | | <u>Average</u> |
|------------------------------------|-------------|-------------|------------|----------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 16.9879 | 16.9879 | 16.9879 | 16.988 |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

8/16/2022

Point to Point Isokenitic Calculations

| |
|--|
| |
|--|

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Emissions Summary

| | | | | |
|--|----------|----------|----------------|------------------|
| Location: EUKILN1 North Stack - Method 10 | | | | |
| Compound: Carbon Monoxide | | | | |
| | | | Average | Reg Limit |
| Run | 1 | 2 | 3 | |
| lb/hr | 1.24E+01 | 1.35E+01 | 1.20E+01 | 1.26E+01 |
| ppm | 1.21E+01 | 1.26E+01 | 1.17E+01 | 1.21E+01 |
| Location: EUKILN1 North Stack - Method 10 3 | | | | |
| Compound: Carbon Monoxide | | | | |
| | | | Average | Reg Limit |
| Run | 4 | 5 | 6 | |
| lb/hr | 0.00E+00 | 1.04E+01 | 1.01E+01 | 6.83E+00 |
| ppm | 0.00E+00 | 1.06E+01 | 1.05E+01 | 7.03E+00 |
| Location: EUKILN1 North Stack - Method 10 3 6 | | | | |
| Compound: Carbon Monoxide | | | | |
| | | | Average | Reg Limit |
| Run | 7 | | | |
| lb/hr | 1.02E+01 | | | 1.02E+01 |
| ppm | 1.08E+01 | | | 1.08E+01 |
| Location: EUKILN1 North Stack - Method 29 | | | | |
| Compound: Antimony | | | | |
| | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 0.000325 | 0.000165 | 0.000202 | 2.31E-04 |
| lb / Tons of Pellets Produced | 1.45E-07 | 7.31E-08 | 9.03E-08 | 1.03E-07 |
| lb/hr | 8.14E-05 | 4.10E-05 | 5.05E-05 | 5.76E-05 |
| mg/dscm | 9.23E-05 | 4.46E-05 | 5.75E-05 | 6.48E-05 |
| Compound: Antimony Back Half | | | | |
| | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 0.000106 | 0.000113 | 0.000106 | 1.08E-04 |
| lb / Tons of Pellets Produced | 4.71E-08 | 5.01E-08 | 4.74E-08 | 4.82E-08 |
| lb/hr | 2.65E-05 | 2.81E-05 | 2.65E-05 | 2.70E-05 |
| mg/dscm | 3.01E-05 | 3.05E-05 | 3.02E-05 | 3.03E-05 |
| Compound: Antimony Front Half | | | | |
| | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 0.000219 | 0.000052 | 0.000096 | 1.22E-04 |
| lb / Tons of Pellets Produced | 9.73E-08 | 2.30E-08 | 4.29E-08 | 5.44E-08 |
| lb/hr | 5.48E-05 | 1.29E-05 | 2.40E-05 | 3.06E-05 |
| mg/dscm | 6.22E-05 | 1.40E-05 | 2.73E-05 | 3.45E-05 |
| Compound: Arsenic | | | | |
| | | | Average | Reg Limit |

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| | | | | |
|-------------------------------|----------|----------|----------|----------|
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 0.000836 | 0.001073 | 0.001062 | 9.90E-04 |
| lb / Tons of Pellets Produced | 3.71E-07 | 4.74E-07 | 4.76E-07 | 4.40E-07 |
| lb/hr | 2.09E-04 | 2.66E-04 | 2.66E-04 | 2.47E-04 |
| mg/dscm | 2.37E-04 | 2.90E-04 | 3.02E-04 | 2.76E-04 |

Compound: Arsenic Back Half

| | | | | | |
|-------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000183 | 0.000194 | 0.000164 | 1.80E-04 | |
| lb / Tons of Pellets Produced | 8.13E-08 | 8.59E-08 | 7.33E-08 | 8.02E-08 | |
| lb/hr | 4.58E-05 | 4.82E-05 | 4.10E-05 | 4.50E-05 | |
| mg/dscm | 5.20E-05 | 5.24E-05 | 4.67E-05 | 5.04E-05 | |

Compound: Arsenic Front Half

| | | | | | |
|-------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000653 | 0.000879 | 0.000898 | 8.10E-04 | |
| lb / Tons of Pellets Produced | 2.91E-07 | 3.89E-07 | 4.03E-07 | 3.61E-07 | |
| lb/hr | 1.64E-04 | 2.18E-04 | 2.25E-04 | 2.02E-04 | |
| mg/dscm | 1.85E-04 | 2.37E-04 | 2.56E-04 | 2.26E-04 | |

Compound: Beryllium

| | | | | | |
|-------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000033 | 0.000042 | 0.000046 | 4.03E-05 | |
| lb / Tons of Pellets Produced | 1.47E-08 | 1.85E-08 | 2.06E-08 | 1.79E-08 | |
| lb/hr | 8.26E-06 | 1.04E-05 | 1.15E-05 | 1.01E-05 | |
| mg/dscm | 9.37E-06 | 1.13E-05 | 1.31E-05 | 1.13E-05 | |

Compound: Beryllium Back Half

| | | | | | |
|-------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000002 | 0.000002 | 0.000002 | 2.00E-06 | |
| lb / Tons of Pellets Produced | 8.90E-10 | 8.86E-10 | 8.94E-10 | 8.90E-10 | |
| lb/hr | 5.01E-07 | 4.97E-07 | 5.00E-07 | 4.99E-07 | |
| mg/dscm | 5.68E-07 | 5.40E-07 | 5.69E-07 | 5.59E-07 | |

Compound: Beryllium Front Half

| | | | | | |
|-------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000031 | 0.00004 | 0.000044 | 3.83E-05 | |
| lb / Tons of Pellets Produced | 1.38E-08 | 1.77E-08 | 1.97E-08 | 1.71E-08 | |
| lb/hr | 7.76E-06 | 9.93E-06 | 1.10E-05 | 9.56E-06 | |
| mg/dscm | 8.80E-06 | 1.08E-05 | 1.25E-05 | 1.07E-05 | |

Compound: Cadmium

| | | | | | |
|--|--|--|--|----------------|------------------|
| | | | | Average | Reg Limit |
|--|--|--|--|----------------|------------------|

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| | | | | |
|-------------------------------|----------|-----------|----------|----------|
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 0.001772 | 0.0019665 | 0.001087 | 1.61E-03 |
| lb / Tons of Pellets Produced | 7.89E-07 | 8.70E-07 | 4.87E-07 | 7.15E-07 |
| lb/hr | 4.44E-04 | 4.88E-04 | 2.72E-04 | 4.01E-04 |
| mg/dscm | 5.03E-04 | 5.31E-04 | 3.09E-04 | 4.48E-04 |

Compound: Cadmium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.001676 | 0.001921 | 0.000996 | 1.53E-03 | |
| lb / Tons of Pellets Produced | 7.46E-07 | 8.50E-07 | 4.45E-07 | 6.80E-07 | |
| lb/hr | 4.20E-04 | 4.77E-04 | 2.49E-04 | 3.82E-04 | |
| mg/dscm | 4.76E-04 | 5.19E-04 | 2.83E-04 | 4.26E-04 | |

Compound: Cadmium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|-----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000096 | 0.0000455 | 0.000091 | 7.75E-05 | |
| lb / Tons of Pellets Produced | 4.26E-08 | 2.01E-08 | 4.08E-08 | 3.45E-08 | |
| lb/hr | 2.40E-05 | 1.13E-05 | 2.28E-05 | 1.94E-05 | |
| mg/dscm | 2.73E-05 | 1.23E-05 | 2.59E-05 | 2.18E-05 | |

Compound: Chromium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.007598 | 0.007648 | 0.007518 | 7.59E-03 | |
| lb / Tons of Pellets Produced | 3.37E-06 | 3.39E-06 | 3.36E-06 | 3.37E-06 | |
| lb/hr | 1.90E-03 | 1.90E-03 | 1.88E-03 | 1.89E-03 | |
| mg/dscm | 2.16E-03 | 2.07E-03 | 2.14E-03 | 2.12E-03 | |

Compound: Chromium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.005108 | 0.004908 | 0.005348 | 5.12E-03 | |
| lb / Tons of Pellets Produced | 2.27E-06 | 2.17E-06 | 2.40E-06 | 2.28E-06 | |
| lb/hr | 1.28E-03 | 1.22E-03 | 1.34E-03 | 1.28E-03 | |
| mg/dscm | 1.45E-03 | 1.33E-03 | 1.52E-03 | 1.43E-03 | |

Compound: Chromium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00249 | 0.00274 | 0.00217 | 2.47E-03 | |
| lb / Tons of Pellets Produced | 1.11E-06 | 1.21E-06 | 9.71E-07 | 1.10E-06 | |
| lb/hr | 6.24E-04 | 6.80E-04 | 5.43E-04 | 6.16E-04 | |
| mg/dscm | 7.07E-04 | 7.40E-04 | 6.18E-04 | 6.88E-04 | |

Compound: Cobalt

| | | | | Average | Reg Limit |
|--|--|--|--|----------------|------------------|
|--|--|--|--|----------------|------------------|

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| | | | | |
|----------------------------------|----------|-----------|-----------|----------|
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 0.000591 | 0.0004333 | 0.0004698 | 4.98E-04 |
| lb / Tons of Pellets Produced | 2.63E-07 | 1.93E-07 | 2.11E-07 | 2.22E-07 |
| lb/hr | 1.48E-04 | 1.08E-04 | 1.18E-04 | 1.25E-04 |
| mg/dscm | 1.68E-04 | 1.17E-04 | 1.34E-04 | 1.40E-04 |

Compound: Cobalt Back Half

| | | | | | |
|----------------------------------|----------|-----------|-----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000158 | 0.0000028 | 0.0000028 | 5.45E-05 | |
| lb / Tons of Pellets Produced | 7.03E-08 | 1.24E-09 | 1.25E-09 | 2.43E-08 | |
| lb/hr | 3.96E-05 | 6.95E-07 | 7.00E-07 | 1.37E-05 | |
| mg/dscm | 4.49E-05 | 7.56E-07 | 7.97E-07 | 1.55E-05 | |

Compound: Cobalt Front Half

| | | | | | |
|----------------------------------|----------|-----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000433 | 0.0004305 | 0.000467 | 4.44E-04 | |
| lb / Tons of Pellets Produced | 1.92E-07 | 1.91E-07 | 2.09E-07 | 1.97E-07 | |
| lb/hr | 1.08E-04 | 1.07E-04 | 1.17E-04 | 1.11E-04 | |
| mg/dscm | 1.23E-04 | 1.16E-04 | 1.33E-04 | 1.24E-04 | |

Compound: Filterable Particulate

| | | | | | |
|----------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 53.8 | 69.4 | 71.3 | 6.48E+01 | |
| lb / Tons of Pellets Produced | 2.40E-02 | 3.07E-02 | 3.18E-02 | 2.88E-02 | |
| lb/hr | 1.35E+01 | 1.72E+01 | 1.78E+01 | 1.62E+01 | |
| mg/dscm | 1.53E+01 | 1.87E+01 | 2.03E+01 | 1.81E+01 | |

Compound: Lead

| | | | | | |
|----------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.008042 | 0.005272 | 0.006582 | 6.63E-03 | |
| lb / Tons of Pellets Produced | 3.57E-06 | 2.34E-06 | 2.95E-06 | 2.95E-06 | |
| lb/hr | 2.01E-03 | 1.31E-03 | 1.65E-03 | 1.66E-03 | |
| mg/dscm | 2.28E-03 | 1.42E-03 | 1.87E-03 | 1.86E-03 | |

Compound: Lead Back Half

| | | | | | |
|----------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.005505 | 0.0032 | 0.003825 | 4.18E-03 | |
| lb / Tons of Pellets Produced | 2.45E-06 | 1.42E-06 | 1.71E-06 | 1.86E-06 | |
| lb/hr | 1.38E-03 | 7.94E-04 | 9.57E-04 | 1.04E-03 | |
| mg/dscm | 1.56E-03 | 8.64E-04 | 1.09E-03 | 1.17E-03 | |

Compound: Lead Front Half

| | | | | | |
|--|--|--|--|----------------|------------------|
| | | | | Average | Reg Limit |
|--|--|--|--|----------------|------------------|

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| | | | | |
|----------------------------------|----------|----------|----------|----------|
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 0.002537 | 0.002072 | 0.002757 | 2.46E-03 |
| lb / Tons of Pellets Produced | 1.13E-06 | 9.16E-07 | 1.23E-06 | 1.09E-06 |
| lb/hr | 6.35E-04 | 5.14E-04 | 6.90E-04 | 6.13E-04 |
| mg/dscm | 7.21E-04 | 5.60E-04 | 7.85E-04 | 6.89E-04 |

Compound: Manganese

| | | | | | |
|----------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.108746 | 0.136646 | 0.126946 | 1.24E-01 | |
| lb / Tons of Pellets Produced | 4.83E-05 | 6.04E-05 | 5.69E-05 | 5.52E-05 | |
| lb/hr | 2.72E-02 | 3.39E-02 | 3.18E-02 | 3.10E-02 | |
| mg/dscm | 3.09E-02 | 3.69E-02 | 3.61E-02 | 3.46E-02 | |

Compound: Manganese Back Half

| | | | | | |
|----------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.019115 | 0.022815 | 0.018615 | 2.02E-02 | |
| lb / Tons of Pellets Produced | 8.51E-06 | 1.01E-05 | 8.34E-06 | 8.98E-06 | |
| lb/hr | 4.79E-03 | 5.66E-03 | 4.66E-03 | 5.04E-03 | |
| mg/dscm | 5.43E-03 | 6.16E-03 | 5.30E-03 | 5.63E-03 | |

Compound: Manganese Front Half

| | | | | | |
|----------------------------------|----------|----------|----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.089631 | 0.113831 | 0.108331 | 1.04E-01 | |
| lb / Tons of Pellets Produced | 3.98E-05 | 5.04E-05 | 4.85E-05 | 4.62E-05 | |
| lb/hr | 2.24E-02 | 2.83E-02 | 2.71E-02 | 2.59E-02 | |
| mg/dscm | 2.55E-02 | 3.07E-02 | 3.08E-02 | 2.90E-02 | |

Compound: Mercury

| | | | | | |
|----------------------------------|-----------|-----------|-----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.0031055 | 0.0036295 | 0.0025625 | 3.10E-03 | |
| lb / Tons of Pellets Produced | 1.38E-06 | 1.61E-06 | 1.15E-06 | 1.38E-06 | |
| lb/hr | 7.78E-04 | 9.01E-04 | 6.41E-04 | 7.73E-04 | |
| mg/dscm | 8.82E-04 | 9.80E-04 | 7.29E-04 | 8.64E-04 | |

Compound: Mercury Back Half

| | | | | | |
|----------------------------------|----------|-----------|-----------|----------------|------------------|
| | | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.003075 | 0.0035845 | 0.0025395 | 3.07E-03 | |
| lb / Tons of Pellets Produced | 1.37E-06 | 1.59E-06 | 1.14E-06 | 1.37E-06 | |
| lb/hr | 7.70E-04 | 8.90E-04 | 6.35E-04 | 7.65E-04 | |
| mg/dscm | 8.73E-04 | 9.68E-04 | 7.23E-04 | 8.55E-04 | |

Compound: Mercury Front Half

| | | | | | |
|--|--|--|--|----------------|------------------|
| | | | | Average | Reg Limit |
|--|--|--|--|----------------|------------------|

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| | | | | |
|-------------------------------|-----------|----------|----------|----------|
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 0.0000305 | 0.000045 | 0.000023 | 3.28E-05 |
| lb / Tons of Pellets Produced | 1.36E-08 | 2.00E-08 | 1.03E-08 | 1.46E-08 |
| lb/hr | 7.64E-06 | 1.12E-05 | 5.75E-06 | 8.20E-06 |
| mg/dscm | 8.66E-06 | 1.22E-05 | 6.55E-06 | 9.14E-06 |

Compound: Nickel

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00596 | 0.00639 | 0.00908 | 7.14E-03 | |
| lb / Tons of Pellets Produced | 2.65E-06 | 2.83E-06 | 4.06E-06 | 3.18E-06 | |
| lb/hr | 1.49E-03 | 1.59E-03 | 2.27E-03 | 1.78E-03 | |
| mg/dscm | 1.69E-03 | 1.73E-03 | 2.58E-03 | 2.00E-03 | |

Compound: Nickel Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00375 | 0.0047 | 0.00393 | 4.13E-03 | |
| lb / Tons of Pellets Produced | 1.67E-06 | 2.09E-06 | 1.76E-06 | 1.84E-06 | |
| lb/hr | 9.39E-04 | 1.17E-03 | 9.83E-04 | 1.03E-03 | |
| mg/dscm | 1.07E-03 | 1.27E-03 | 1.12E-03 | 1.15E-03 | |

Compound: Nickel Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00221 | 0.00169 | 0.00515 | 3.02E-03 | |
| lb / Tons of Pellets Produced | 9.82E-07 | 7.49E-07 | 2.31E-06 | 1.35E-06 | |
| lb/hr | 5.53E-04 | 4.20E-04 | 1.29E-03 | 7.54E-04 | |
| mg/dscm | 6.28E-04 | 4.56E-04 | 1.47E-03 | 8.51E-04 | |

Compound: Phosphorus (yellow or white)

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.04724 | 0.04844 | 0.05354 | 4.97E-02 | |
| lb / Tons of Pellets Produced | 2.10E-05 | 2.14E-05 | 2.40E-05 | 2.21E-05 | |
| lb/hr | 1.18E-02 | 1.20E-02 | 1.34E-02 | 1.24E-02 | |
| mg/dscm | 1.34E-02 | 1.31E-02 | 1.52E-02 | 1.39E-02 | |

Compound: Phosphorus (yellow or white) Back

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.0337 | 0.0318 | 0.0353 | 3.36E-02 | |
| lb / Tons of Pellets Produced | 1.50E-05 | 1.41E-05 | 1.58E-05 | 1.50E-05 | |
| lb/hr | 8.44E-03 | 7.89E-03 | 8.83E-03 | 8.39E-03 | |
| mg/dscm | 9.57E-03 | 8.59E-03 | 1.00E-02 | 9.39E-03 | |

Compound: Phosphorus (yellow or white) Front

| | | | | Average | Reg Limit |
|--|--|--|--|----------------|------------------|
|--|--|--|--|----------------|------------------|

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| | | | | |
|-------------------------------|----------|----------|----------|----------|
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 0.01354 | 0.01664 | 0.01824 | 1.61E-02 |
| lb / Tons of Pellets Produced | 6.02E-06 | 7.36E-06 | 8.16E-06 | 7.18E-06 |
| lb/hr | 3.39E-03 | 4.13E-03 | 4.56E-03 | 4.03E-03 |
| mg/dscm | 3.85E-03 | 4.49E-03 | 5.19E-03 | 4.51E-03 |

Compound: Selenium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.003713 | 0.00469 | 0.00407 | 4.16E-03 | |
| lb / Tons of Pellets Produced | 1.65E-06 | 2.07E-06 | 1.82E-06 | 1.85E-06 | |
| lb/hr | 9.30E-04 | 1.16E-03 | 1.02E-03 | 1.04E-03 | |
| mg/dscm | 1.05E-03 | 1.27E-03 | 1.16E-03 | 1.16E-03 | |

Compound: Selenium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000883 | 0.00128 | 0.00111 | 1.09E-03 | |
| lb / Tons of Pellets Produced | 3.93E-07 | 5.67E-07 | 4.97E-07 | 4.86E-07 | |
| lb/hr | 2.21E-04 | 3.18E-04 | 2.78E-04 | 2.72E-04 | |
| mg/dscm | 2.51E-04 | 3.46E-04 | 3.16E-04 | 3.04E-04 | |

Compound: Selenium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00283 | 0.00341 | 0.00296 | 3.07E-03 | |
| lb / Tons of Pellets Produced | 1.26E-06 | 1.51E-06 | 1.32E-06 | 1.36E-06 | |
| lb/hr | 7.09E-04 | 8.47E-04 | 7.40E-04 | 7.65E-04 | |
| mg/dscm | 8.04E-04 | 9.21E-04 | 8.42E-04 | 8.56E-04 | |

Location: EUKILN1 North Stack - Method 29 3**Compound:** Antimony

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.001407 | 0.000204 | 0.000169 | 5.93E-04 | |
| lb / Tons of Pellets Produced | 6.36E-07 | 9.68E-08 | 8.21E-08 | 2.72E-07 | |
| lb/hr | 3.48E-04 | 5.09E-05 | 4.23E-05 | 1.47E-04 | |
| mg/dscm | 3.96E-04 | 6.05E-05 | 5.12E-05 | 1.69E-04 | |

Compound: Antimony Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000097 | 0.000123 | 0.00006 | 9.33E-05 | |
| lb / Tons of Pellets Produced | 4.39E-08 | 5.84E-08 | 2.91E-08 | 4.38E-08 | |
| lb/hr | 2.40E-05 | 3.07E-05 | 1.50E-05 | 2.32E-05 | |
| mg/dscm | 2.73E-05 | 3.65E-05 | 1.82E-05 | 2.73E-05 | |

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Compound: Antimony Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00131 | 0.000081 | 0.000109 | 5.00E-04 | |
| lb / Tons of Pellets Produced | 5.92E-07 | 3.84E-08 | 5.30E-08 | 2.28E-07 | |
| lb/hr | 3.24E-04 | 2.02E-05 | 2.73E-05 | 1.24E-04 | |
| mg/dscm | 3.69E-04 | 2.40E-05 | 3.30E-05 | 1.42E-04 | |

Compound: Arsenic

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.001044 | 0.000748 | 0.000794 | 8.62E-04 | |
| lb / Tons of Pellets Produced | 4.72E-07 | 3.54E-07 | 3.86E-07 | 4.04E-07 | |
| lb/hr | 2.58E-04 | 1.86E-04 | 1.99E-04 | 2.14E-04 | |
| mg/dscm | 2.94E-04 | 2.22E-04 | 2.41E-04 | 2.52E-04 | |

Compound: Arsenic Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000155 | 0.000157 | 0.000156 | 1.56E-04 | |
| lb / Tons of Pellets Produced | 7.00E-08 | 7.43E-08 | 7.59E-08 | 7.34E-08 | |
| lb/hr | 3.83E-05 | 3.91E-05 | 3.91E-05 | 3.88E-05 | |
| mg/dscm | 4.36E-05 | 4.66E-05 | 4.73E-05 | 4.58E-05 | |

Compound: Arsenic Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000889 | 0.000591 | 0.000638 | 7.06E-04 | |
| lb / Tons of Pellets Produced | 4.02E-07 | 2.79E-07 | 3.11E-07 | 3.31E-07 | |
| lb/hr | 2.20E-04 | 1.47E-04 | 1.60E-04 | 1.76E-04 | |
| mg/dscm | 2.50E-04 | 1.75E-04 | 1.93E-04 | 2.06E-04 | |

Compound: Beryllium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000043 | 0.000029 | 0.000031 | 3.43E-05 | |
| lb / Tons of Pellets Produced | 1.94E-08 | 1.37E-08 | 1.51E-08 | 1.61E-08 | |
| lb/hr | 1.06E-05 | 7.23E-06 | 7.77E-06 | 8.53E-06 | |
| mg/dscm | 1.21E-05 | 8.60E-06 | 9.39E-06 | 1.00E-05 | |

Compound: Beryllium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000002 | 0.000002 | 0.000003 | 2.33E-06 | |
| lb / Tons of Pellets Produced | 9.03E-10 | 9.49E-10 | 1.46E-09 | 1.10E-09 | |
| lb/hr | 4.94E-07 | 4.99E-07 | 7.52E-07 | 5.82E-07 | |
| mg/dscm | 5.63E-07 | 5.93E-07 | 9.09E-07 | 6.88E-07 | |

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Compound: Beryllium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000041 | 0.000027 | 0.000028 | 3.20E-05 | |
| lb / Tons of Pellets Produced | 1.85E-08 | 1.28E-08 | 1.36E-08 | 1.50E-08 | |
| lb/hr | 1.01E-05 | 6.73E-06 | 7.01E-06 | 7.95E-06 | |
| mg/dscm | 1.15E-05 | 8.01E-06 | 8.48E-06 | 9.33E-06 | |

Compound: Cadmium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.001741 | 0.001893 | 0.001543 | 1.73E-03 | |
| lb / Tons of Pellets Produced | 7.86E-07 | 8.97E-07 | 7.51E-07 | 8.11E-07 | |
| lb/hr | 4.30E-04 | 4.72E-04 | 3.87E-04 | 4.30E-04 | |
| mg/dscm | 4.90E-04 | 5.62E-04 | 4.68E-04 | 5.07E-04 | |

Compound: Cadmium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.001656 | 0.001626 | 0.001476 | 1.59E-03 | |
| lb / Tons of Pellets Produced | 7.48E-07 | 7.70E-07 | 7.18E-07 | 7.45E-07 | |
| lb/hr | 4.09E-04 | 4.05E-04 | 3.70E-04 | 3.95E-04 | |
| mg/dscm | 4.66E-04 | 4.82E-04 | 4.47E-04 | 4.65E-04 | |

Compound: Cadmium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000085 | 0.000267 | 0.000067 | 1.40E-04 | |
| lb / Tons of Pellets Produced | 3.84E-08 | 1.27E-07 | 3.26E-08 | 6.60E-08 | |
| lb/hr | 2.10E-05 | 6.66E-05 | 1.68E-05 | 3.48E-05 | |
| mg/dscm | 2.39E-05 | 7.92E-05 | 2.03E-05 | 4.11E-05 | |

Compound: Chromium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.006998 | 0.006668 | 0.008118 | 7.26E-03 | |
| lb / Tons of Pellets Produced | 3.16E-06 | 3.16E-06 | 3.94E-06 | 3.42E-06 | |
| lb/hr | 1.73E-03 | 1.66E-03 | 2.03E-03 | 1.81E-03 | |
| mg/dscm | 1.97E-03 | 1.98E-03 | 2.46E-03 | 2.14E-03 | |

Compound: Chromium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.004438 | 0.003588 | 0.006818 | 4.95E-03 | |
| lb / Tons of Pellets Produced | 2.01E-06 | 1.70E-06 | 3.32E-06 | 2.34E-06 | |
| lb/hr | 1.10E-03 | 8.94E-04 | 1.71E-03 | 1.23E-03 | |
| mg/dscm | 1.25E-03 | 1.06E-03 | 2.07E-03 | 1.46E-03 | |

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Compound: Chromium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00256 | 0.00308 | 0.0013 | 2.31E-03 | |
| lb / Tons of Pellets Produced | 1.16E-06 | 1.46E-06 | 6.33E-07 | 1.08E-06 | |
| lb/hr | 6.32E-04 | 7.68E-04 | 3.26E-04 | 5.75E-04 | |
| mg/dscm | 7.20E-04 | 9.14E-04 | 3.94E-04 | 6.76E-04 | |

Compound: Cobalt

| | | | | Average | Reg Limit |
|-------------------------------|-----------|----------|-----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0005708 | 0.000419 | 0.0003168 | 4.36E-04 | |
| lb / Tons of Pellets Produced | 2.58E-07 | 1.98E-07 | 1.54E-07 | 2.03E-07 | |
| lb/hr | 1.41E-04 | 1.04E-04 | 7.94E-05 | 1.08E-04 | |
| mg/dscm | 1.61E-04 | 1.24E-04 | 9.60E-05 | 1.27E-04 | |

Compound: Cobalt Back Half

| | | | | Average | Reg Limit |
|-------------------------------|-----------|----------|-----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0000028 | 0.000132 | 0.0000028 | 4.59E-05 | |
| lb / Tons of Pellets Produced | 1.27E-09 | 6.25E-08 | 1.36E-09 | 2.17E-08 | |
| lb/hr | 6.92E-07 | 3.29E-05 | 7.01E-07 | 1.14E-05 | |
| mg/dscm | 7.88E-07 | 3.92E-05 | 8.48E-07 | 1.36E-05 | |

Compound: Cobalt Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000568 | 0.000287 | 0.000314 | 3.90E-04 | |
| lb / Tons of Pellets Produced | 2.56E-07 | 1.36E-07 | 1.53E-07 | 1.82E-07 | |
| lb/hr | 1.40E-04 | 7.15E-05 | 7.87E-05 | 9.67E-05 | |
| mg/dscm | 1.60E-04 | 8.51E-05 | 9.51E-05 | 1.13E-04 | |

Compound: Filterable Particulate

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 68.3 | 52.5 | 57.5 | 5.94E+01 | |
| lb / Tons of Pellets Produced | 3.09E-02 | 2.49E-02 | 2.80E-02 | 2.79E-02 | |
| lb/hr | 1.69E+01 | 1.31E+01 | 1.44E+01 | 1.48E+01 | |
| mg/dscm | 1.92E+01 | 1.56E+01 | 1.74E+01 | 1.74E+01 | |

Compound: Lead

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.005302 | 0.006532 | 0.004562 | 5.47E-03 | |
| lb / Tons of Pellets Produced | 2.39E-06 | 3.10E-06 | 2.21E-06 | 2.57E-06 | |
| lb/hr | 1.31E-03 | 1.63E-03 | 1.14E-03 | 1.36E-03 | |
| mg/dscm | 1.49E-03 | 1.94E-03 | 1.38E-03 | 1.60E-03 | |

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Compound: Lead Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.002625 | 0.004985 | 0.002735 | 3.45E-03 | |
| lb / Tons of Pellets Produced | 1.18E-06 | 2.36E-06 | 1.33E-06 | 1.62E-06 | |
| lb/hr | 6.48E-04 | 1.24E-03 | 6.85E-04 | 8.58E-04 | |
| mg/dscm | 7.38E-04 | 1.48E-03 | 8.29E-04 | 1.02E-03 | |

Compound: Lead Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.002677 | 0.001547 | 0.001827 | 2.02E-03 | |
| lb / Tons of Pellets Produced | 1.21E-06 | 7.34E-07 | 8.89E-07 | 9.44E-07 | |
| lb/hr | 6.61E-04 | 3.86E-04 | 4.58E-04 | 5.02E-04 | |
| mg/dscm | 7.53E-04 | 4.59E-04 | 5.54E-04 | 5.89E-04 | |

Compound: Manganese

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.120346 | 0.116646 | 0.110246 | 1.16E-01 | |
| lb / Tons of Pellets Produced | 5.43E-05 | 5.53E-05 | 5.36E-05 | 5.44E-05 | |
| lb/hr | 2.97E-02 | 2.91E-02 | 2.76E-02 | 2.88E-02 | |
| mg/dscm | 3.39E-02 | 3.46E-02 | 3.34E-02 | 3.40E-02 | |

Compound: Manganese Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.014015 | 0.022615 | 0.013915 | 1.68E-02 | |
| lb / Tons of Pellets Produced | 6.33E-06 | 1.07E-05 | 6.78E-06 | 7.94E-06 | |
| lb/hr | 3.46E-03 | 5.64E-03 | 3.49E-03 | 4.20E-03 | |
| mg/dscm | 3.94E-03 | 6.71E-03 | 4.22E-03 | 4.96E-03 | |

Compound: Manganese Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.106331 | 0.094031 | 0.096331 | 9.89E-02 | |
| lb / Tons of Pellets Produced | 4.81E-05 | 4.45E-05 | 4.68E-05 | 4.65E-05 | |
| lb/hr | 2.63E-02 | 2.34E-02 | 2.41E-02 | 2.46E-02 | |
| mg/dscm | 2.99E-02 | 2.79E-02 | 2.92E-02 | 2.90E-02 | |

Compound: Mercury

| | | | | Average | Reg Limit |
|-------------------------------|-----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0032765 | 0.002857 | 0.00233 | 2.82E-03 | |
| lb / Tons of Pellets Produced | 1.48E-06 | 1.35E-06 | 1.13E-06 | 1.32E-06 | |
| lb/hr | 8.09E-04 | 7.12E-04 | 5.84E-04 | 7.02E-04 | |
| mg/dscm | 9.22E-04 | 8.48E-04 | 7.06E-04 | 8.25E-04 | |

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Compound: Mercury Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.003242 | 0.002835 | 0.002307 | 2.79E-03 | |
| lb / Tons of Pellets Produced | 1.46E-06 | 1.34E-06 | 1.12E-06 | 1.31E-06 | |
| lb/hr | 8.01E-04 | 7.07E-04 | 5.78E-04 | 6.95E-04 | |
| mg/dscm | 9.12E-04 | 8.41E-04 | 6.99E-04 | 8.17E-04 | |

Compound: Mercury Front Half

| | | | | Average | Reg Limit |
|-------------------------------|-----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0000345 | 0.000022 | 0.000023 | 2.65E-05 | |
| lb / Tons of Pellets Produced | 1.56E-08 | 1.04E-08 | 1.12E-08 | 1.24E-08 | |
| lb/hr | 8.52E-06 | 5.48E-06 | 5.76E-06 | 6.59E-06 | |
| mg/dscm | 9.71E-06 | 6.53E-06 | 6.97E-06 | 7.74E-06 | |

Compound: Nickel

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.01751 | 0.01075 | 0.00899 | 1.24E-02 | |
| lb / Tons of Pellets Produced | 7.92E-06 | 5.10E-06 | 4.37E-06 | 5.80E-06 | |
| lb/hr | 4.33E-03 | 2.68E-03 | 2.25E-03 | 3.09E-03 | |
| mg/dscm | 4.93E-03 | 3.19E-03 | 2.72E-03 | 3.61E-03 | |

Compound: Nickel Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00329 | 0.00324 | 0.00476 | 3.76E-03 | |
| lb / Tons of Pellets Produced | 1.49E-06 | 1.54E-06 | 2.31E-06 | 1.78E-06 | |
| lb/hr | 8.13E-04 | 8.08E-04 | 1.19E-03 | 9.37E-04 | |
| mg/dscm | 9.26E-04 | 9.61E-04 | 1.44E-03 | 1.11E-03 | |

Compound: Nickel Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.01422 | 0.00751 | 0.00423 | 8.65E-03 | |
| lb / Tons of Pellets Produced | 6.42E-06 | 3.56E-06 | 2.06E-06 | 4.01E-06 | |
| lb/hr | 3.51E-03 | 1.87E-03 | 1.06E-03 | 2.15E-03 | |
| mg/dscm | 4.00E-03 | 2.23E-03 | 1.28E-03 | 2.50E-03 | |

Compound: Phosphorus (yellow or white)

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.04314 | 0.03624 | 0.04244 | 4.06E-02 | |
| lb / Tons of Pellets Produced | 1.96E-05 | 1.72E-05 | 2.06E-05 | 1.91E-05 | |
| lb/hr | 1.07E-02 | 9.03E-03 | 1.06E-02 | 1.01E-02 | |
| mg/dscm | 1.21E-02 | 1.08E-02 | 1.29E-02 | 1.19E-02 | |

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Compound: Phosphorus (yellow or white) Back

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0264 | 0.0252 | 0.0309 | 2.75E-02 | |
| lb / Tons of Pellets Produced | 1.19E-05 | 1.19E-05 | 1.50E-05 | 1.29E-05 | |
| lb/hr | 6.52E-03 | 6.28E-03 | 7.74E-03 | 6.85E-03 | |
| mg/dscm | 7.43E-03 | 7.48E-03 | 9.36E-03 | 8.09E-03 | |

Compound: Phosphorus (yellow or white) Front

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.01674 | 0.01104 | 0.01154 | 1.31E-02 | |
| lb / Tons of Pellets Produced | 7.57E-06 | 5.23E-06 | 5.61E-06 | 6.14E-06 | |
| lb/hr | 4.14E-03 | 2.75E-03 | 2.89E-03 | 3.26E-03 | |
| mg/dscm | 4.71E-03 | 3.28E-03 | 3.50E-03 | 3.83E-03 | |

Compound: Selenium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.003576 | 0.002954 | 0.002587 | 3.04E-03 | |
| lb / Tons of Pellets Produced | 1.61E-06 | 1.40E-06 | 1.26E-06 | 1.42E-06 | |
| lb/hr | 8.83E-04 | 7.36E-04 | 6.48E-04 | 7.56E-04 | |
| mg/dscm | 1.01E-03 | 8.76E-04 | 7.84E-04 | 8.90E-04 | |

Compound: Selenium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000906 | 0.000954 | 0.000777 | 8.79E-04 | |
| lb / Tons of Pellets Produced | 4.10E-07 | 4.52E-07 | 3.79E-07 | 4.14E-07 | |
| lb/hr | 2.24E-04 | 2.38E-04 | 1.95E-04 | 2.19E-04 | |
| mg/dscm | 2.55E-04 | 2.83E-04 | 2.35E-04 | 2.58E-04 | |

Compound: Selenium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00267 | 0.002 | 0.00181 | 2.16E-03 | |
| lb / Tons of Pellets Produced | 1.21E-06 | 9.49E-07 | 8.80E-07 | 1.01E-06 | |
| lb/hr | 6.60E-04 | 4.99E-04 | 4.53E-04 | 5.37E-04 | |
| mg/dscm | 7.51E-04 | 5.93E-04 | 5.48E-04 | 6.31E-04 | |

Location: EUKILN1 North Stack - Method 29 3 6

Compound: Antimony

| | | | | Average | Reg Limit |
|-------------------------------|----------|--|--|----------|-----------|
| RunNumber | 7 | | | | |
| Mass_mg | 0.000216 | | | 2.16E-04 | |
| lb / Tons of Pellets Produced | 9.91E-08 | | | 9.91E-08 | |
| lb/hr | 5.35E-05 | | | 5.35E-05 | |

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| | | |
|--------------------------------------|----------|--------------------------|
| mg/dscm | 6.55E-05 | 6.55E-05 |
| Compound: Antimony Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.000101 | 1.01E-04 |
| lb / Tons of Pellets | 4.63E-08 | 4.63E-08 |
| Produced | | |
| lb/hr | 2.50E-05 | 2.50E-05 |
| mg/dscm | 3.06E-05 | 3.06E-05 |
| Compound: Antimony Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.000115 | 1.15E-04 |
| lb / Tons of Pellets | 5.28E-08 | 5.28E-08 |
| Produced | | |
| lb/hr | 2.85E-05 | 2.85E-05 |
| mg/dscm | 3.49E-05 | 3.49E-05 |
| Compound: Arsenic | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.000776 | 7.76E-04 |
| lb / Tons of Pellets | 3.56E-07 | 3.56E-07 |
| Produced | | |
| lb/hr | 1.92E-04 | 1.92E-04 |
| mg/dscm | 2.35E-04 | 2.35E-04 |
| Compound: Arsenic Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.000155 | 1.55E-04 |
| lb / Tons of Pellets | 7.11E-08 | 7.11E-08 |
| Produced | | |
| lb/hr | 3.84E-05 | 3.84E-05 |
| mg/dscm | 4.70E-05 | 4.70E-05 |
| Compound: Arsenic Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.000621 | 6.21E-04 |
| lb / Tons of Pellets | 2.85E-07 | 2.85E-07 |
| Produced | | |
| lb/hr | 1.54E-04 | 1.54E-04 |
| mg/dscm | 1.88E-04 | 1.88E-04 |
| Compound: Beryllium | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.000029 | 2.90E-05 |
| lb / Tons of Pellets | 1.33E-08 | 1.33E-08 |
| Produced | | |
| lb/hr | 7.18E-06 | 7.18E-06 |

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| | | | |
|---------------------------------------|----------|----------------|------------------|
| mg/dscm | 8.79E-06 | 8.79E-06 | |
| Compound: Beryllium Back Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000002 | 2.00E-06 | |
| lb / Tons of Pellets | 9.17E-10 | 9.17E-10 | |
| Produced | | | |
| lb/hr | 4.95E-07 | 4.95E-07 | |
| mg/dscm | 6.07E-07 | 6.07E-07 | |
| Compound: Beryllium Front Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000027 | 2.70E-05 | |
| lb / Tons of Pellets | 1.24E-08 | 1.24E-08 | |
| Produced | | | |
| lb/hr | 6.68E-06 | 6.68E-06 | |
| mg/dscm | 8.19E-06 | 8.19E-06 | |
| Compound: Cadmium | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.001111 | 1.11E-03 | |
| lb / Tons of Pellets | 5.09E-07 | 5.09E-07 | |
| Produced | | | |
| lb/hr | 2.75E-04 | 2.75E-04 | |
| mg/dscm | 3.37E-04 | 3.37E-04 | |
| Compound: Cadmium Back Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.001056 | 1.06E-03 | |
| lb / Tons of Pellets | 4.83E-07 | 4.83E-07 | |
| Produced | | | |
| lb/hr | 2.61E-04 | 2.61E-04 | |
| mg/dscm | 3.20E-04 | 3.20E-04 | |
| Compound: Cadmium Front Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000055 | 5.50E-05 | |
| lb / Tons of Pellets | 2.52E-08 | 2.52E-08 | |
| Produced | | | |
| lb/hr | 1.36E-05 | 1.36E-05 | |
| mg/dscm | 1.67E-05 | 1.67E-05 | |
| Compound: Chromium | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.005228 | 5.23E-03 | |
| lb / Tons of Pellets | 2.39E-06 | 2.39E-06 | |
| Produced | | | |
| lb/hr | 1.29E-03 | 1.29E-03 | |

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| | | |
|---|-----------|--------------------------|
| mg/dscm | 1.59E-03 | 1.59E-03 |
| Compound: Chromium Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.002748 | 2.75E-03 |
| lb / Tons of Pellets | 1.26E-06 | 1.26E-06 |
| Produced | | |
| lb/hr | 6.80E-04 | 6.80E-04 |
| mg/dscm | 8.33E-04 | 8.33E-04 |
| Compound: Chromium Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.00248 | 2.48E-03 |
| lb / Tons of Pellets | 1.14E-06 | 1.14E-06 |
| Produced | | |
| lb/hr | 6.14E-04 | 6.14E-04 |
| mg/dscm | 7.52E-04 | 7.52E-04 |
| Compound: Cobalt | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.0003198 | 3.20E-04 |
| lb / Tons of Pellets | 1.46E-07 | 1.46E-07 |
| Produced | | |
| lb/hr | 7.91E-05 | 7.91E-05 |
| mg/dscm | 9.70E-05 | 9.70E-05 |
| Compound: Cobalt Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.0000028 | 2.80E-06 |
| lb / Tons of Pellets | 1.28E-09 | 1.28E-09 |
| Produced | | |
| lb/hr | 6.93E-07 | 6.93E-07 |
| mg/dscm | 8.49E-07 | 8.49E-07 |
| Compound: Cobalt Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.000317 | 3.17E-04 |
| lb / Tons of Pellets | 1.45E-07 | 1.45E-07 |
| Produced | | |
| lb/hr | 7.84E-05 | 7.84E-05 |
| mg/dscm | 9.61E-05 | 9.61E-05 |
| Compound: Filterable Particulate | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 56.2 | 5.62E+01 |
| lb / Tons of Pellets | 2.57E-02 | 2.57E-02 |
| Produced | | |
| lb/hr | 1.39E+01 | 1.39E+01 |

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| | | |
|---------------------------------------|----------|--------------------------|
| mg/dscm | 1.70E+01 | 1.70E+01 |
| Compound: Lead | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.005162 | 5.16E-03 |
| lb / Tons of Pellets Produced | 2.37E-06 | 2.37E-06 |
| lb/hr | 1.28E-03 | 1.28E-03 |
| mg/dscm | 1.57E-03 | 1.57E-03 |
| Compound: Lead Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.003445 | 3.45E-03 |
| lb / Tons of Pellets Produced | 1.58E-06 | 1.58E-06 |
| lb/hr | 8.53E-04 | 8.53E-04 |
| mg/dscm | 1.04E-03 | 1.04E-03 |
| Compound: Lead Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.001717 | 1.72E-03 |
| lb / Tons of Pellets Produced | 7.87E-07 | 7.87E-07 |
| lb/hr | 4.25E-04 | 4.25E-04 |
| mg/dscm | 5.21E-04 | 5.21E-04 |
| Compound: Manganese | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.107446 | 1.07E-01 |
| lb / Tons of Pellets Produced | 4.93E-05 | 4.93E-05 |
| lb/hr | 2.66E-02 | 2.66E-02 |
| mg/dscm | 3.26E-02 | 3.26E-02 |
| Compound: Manganese Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.011515 | 1.15E-02 |
| lb / Tons of Pellets Produced | 5.28E-06 | 5.28E-06 |
| lb/hr | 2.85E-03 | 2.85E-03 |
| mg/dscm | 3.49E-03 | 3.49E-03 |
| Compound: Manganese Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.095931 | 9.59E-02 |
| lb / Tons of Pellets Produced | 4.39E-05 | 4.39E-05 |
| lb/hr | 2.37E-02 | 2.37E-02 |

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| | | |
|-------------------------------------|----------|--------------------------|
| mg/dscm | 2.91E-02 | 2.91E-02 |
| Compound: Mercury | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.002399 | 2.40E-03 |
| lb / Tons of Pellets | 1.10E-06 | 1.10E-06 |
| Produced | | |
| lb/hr | 5.94E-04 | 5.94E-04 |
| mg/dscm | 7.28E-04 | 7.28E-04 |
| Compound: Mercury Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.00237 | 2.37E-03 |
| lb / Tons of Pellets | 1.09E-06 | 1.09E-06 |
| Produced | | |
| lb/hr | 5.86E-04 | 5.86E-04 |
| mg/dscm | 7.19E-04 | 7.19E-04 |
| Compound: Mercury Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.000029 | 2.90E-05 |
| lb / Tons of Pellets | 1.33E-08 | 1.33E-08 |
| Produced | | |
| lb/hr | 7.18E-06 | 7.18E-06 |
| mg/dscm | 8.79E-06 | 8.79E-06 |
| Compound: Nickel | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.0095 | 9.50E-03 |
| lb / Tons of Pellets | 4.35E-06 | 4.35E-06 |
| Produced | | |
| lb/hr | 2.35E-03 | 2.35E-03 |
| mg/dscm | 2.88E-03 | 2.88E-03 |
| Compound: Nickel Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.00392 | 3.92E-03 |
| lb / Tons of Pellets | 1.80E-06 | 1.80E-06 |
| Produced | | |
| lb/hr | 9.70E-04 | 9.70E-04 |
| mg/dscm | 1.19E-03 | 1.19E-03 |
| Compound: Nickel Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.00558 | 5.58E-03 |
| lb / Tons of Pellets | 2.56E-06 | 2.56E-06 |
| Produced | | |
| lb/hr | 1.38E-03 | 1.38E-03 |

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| | | | |
|---|----------|----------------|------------------|
| mg/dscm | 1.69E-03 | 1.69E-03 | |
| Compound: Phosphorus (yellow or white) | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.04204 | 4.20E-02 | |
| lb / Tons of Pellets | 1.93E-05 | 1.93E-05 | |
| Produced | | | |
| lb/hr | 1.04E-02 | 1.04E-02 | |
| mg/dscm | 1.27E-02 | 1.27E-02 | |
| Compound: Phosphorus (yellow or white) Back | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.0303 | 3.03E-02 | |
| lb / Tons of Pellets | 1.39E-05 | 1.39E-05 | |
| Produced | | | |
| lb/hr | 7.50E-03 | 7.50E-03 | |
| mg/dscm | 9.19E-03 | 9.19E-03 | |
| Compound: Phosphorus (yellow or white) Front | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.01174 | 1.17E-02 | |
| lb / Tons of Pellets | 5.39E-06 | 5.39E-06 | |
| Produced | | | |
| lb/hr | 2.91E-03 | 2.91E-03 | |
| mg/dscm | 3.56E-03 | 3.56E-03 | |
| Compound: Selenium | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.002822 | 2.82E-03 | |
| lb / Tons of Pellets | 1.29E-06 | 1.29E-06 | |
| Produced | | | |
| lb/hr | 6.98E-04 | 6.98E-04 | |
| mg/dscm | 8.56E-04 | 8.56E-04 | |
| Compound: Selenium Back Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000792 | 7.92E-04 | |
| lb / Tons of Pellets | 3.63E-07 | 3.63E-07 | |
| Produced | | | |
| lb/hr | 1.96E-04 | 1.96E-04 | |
| mg/dscm | 2.40E-04 | 2.40E-04 | |
| Compound: Selenium Front Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.00203 | 2.03E-03 | |
| lb / Tons of Pellets | 9.30E-07 | 9.30E-07 | |
| Produced | | | |
| lb/hr | 5.02E-04 | 5.02E-04 | |

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| | | | | |
|---|----------|----------|----------------|------------------|
| mg/dscm | 6.16E-04 | | | 6.16E-04 |
| Location: EUKILN1 North Stack - Method 3A CO2 | | | | |
| Compound: Carbon Dioxide | | | | |
| | | | Average | Reg Limit |
| Run | 1 | 2 | 3 | |
| Percent(%) | 2.06E+00 | 2.16E+00 | 2.22E+00 | 2.15E+00 |
| Location: EUKILN1 North Stack - Method 3A CO2 3 | | | | |
| Compound: Carbon Dioxide | | | | |
| | | | Average | Reg Limit |
| Run | 4 | 5 | 6 | |
| Percent(%) | 2.28E+00 | 2.10E+00 | 2.21E+00 | 2.20E+00 |
| Location: EUKILN1 North Stack - Method 3A CO2 3 6 | | | | |
| Compound: Carbon Dioxide | | | | |
| | | | Average | Reg Limit |
| Run | 7 | | | |
| Percent(%) | 2.26E+00 | | | 2.26E+00 |
| Location: EUKILN1 North Stack - Method 3A O2 | | | | |
| Compound: Oxygen | | | | |
| | | | Average | Reg Limit |
| Run | 1 | 2 | 3 | |
| Percent(%) | 1.84E+01 | 1.82E+01 | 1.92E+01 | 1.86E+01 |
| Location: EUKILN1 North Stack - Method 3A O2 3 | | | | |
| Compound: Oxygen | | | | |
| | | | Average | Reg Limit |
| Run | 4 | 5 | 6 | |
| Percent(%) | 1.91E+01 | 1.89E+01 | 1.89E+01 | 1.90E+01 |
| Location: EUKILN1 North Stack - Method 3A O2 3 6 | | | | |
| Compound: Oxygen | | | | |
| | | | Average | Reg Limit |
| Run | 7 | | | |
| Percent(%) | 1.90E+01 | | | 1.90E+01 |
| Location: EUKILN1 North Stack HCL HF Test - Method 10 | | | | |
| Compound: Carbon Monoxide | | | | |
| | | | Average | Reg Limit |
| Run | 1 | 2 | 3 | |
| lb/hr | 1.24E+01 | 1.18E+01 | 1.16E+01 | 1.19E+01 |
| ppm | 1.14E+01 | 1.09E+01 | 1.09E+01 | 1.11E+01 |
| Location: EUKILN1 North Stack HCL HF Test - Method 26A | | | | |
| Compound: Hydrogen Chloride | | | | |
| | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 72.78 | 106.749 | 95.481 | 9.17E+01 |
| lb / Tons of Pellets Produced | 4.83E-02 | 6.98E-02 | 6.29E-02 | 6.03E-02 |
| lb/hr | 2.73E+01 | 3.99E+01 | 3.56E+01 | 3.43E+01 |
| mg/dscm | 2.92E+01 | 4.29E+01 | 3.89E+01 | 3.70E+01 |

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Compound: Hydrogen Fluoride

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 2.177 | 3.414 | 3.751 | 3.11E+00 | |
| lb / Tons of Pellets Produced | 1.45E-03 | 2.24E-03 | 2.47E-03 | 2.05E-03 | |
| lb/hr | 8.17E-01 | 1.28E+00 | 1.40E+00 | 1.17E+00 | |
| mg/dscm | 8.74E-01 | 1.37E+00 | 1.53E+00 | 1.26E+00 | |

Location: EUKILN1 North Stack HCL HF Test - Method 3A CO2**Compound:** Carbon Dioxide

| | | | | Average | Reg Limit |
|------------|----------|----------|----------|----------|-----------|
| Run | 1 | 2 | 3 | | |
| Percent(%) | 2.18E+00 | 2.18E+00 | 2.18E+00 | 2.18E+00 | |

Location: EUKILN1 North Stack HCL HF Test - Method 3A O2**Compound:** Oxygen

| | | | | Average | Reg Limit |
|------------|----------|----------|----------|----------|-----------|
| Run | 1 | 2 | 3 | | |
| Percent(%) | 1.89E+01 | 1.89E+01 | 1.89E+01 | 1.89E+01 | |

Location: EUKILN1 South Stack - Method 10**Compound:** Carbon Monoxide

| | | | | Average | Reg Limit |
|-------|----------|----------|----------|----------|-----------|
| Run | 1 | 2 | 3 | | |
| lb/hr | 2.54E+01 | 2.58E+01 | 2.35E+01 | 2.49E+01 | |
| ppm | 1.21E+01 | 1.25E+01 | 1.20E+01 | 1.22E+01 | |

Location: EUKILN1 South Stack - Method 10 3**Compound:** Carbon Monoxide

| | | | | Average | Reg Limit |
|-------|----------|----------|----------|----------|-----------|
| Run | 4 | 5 | 6 | | |
| lb/hr | 2.36E+01 | 2.30E+01 | 0.00E+00 | 1.55E+01 | |
| ppm | 1.22E+01 | 1.15E+01 | 0.00E+00 | 7.90E+00 | |

Location: EUKILN1 South Stack - Method 10 3 6**Compound:** Carbon Monoxide

| | | | | Average | Reg Limit |
|-------|----------|--|--|----------|-----------|
| Run | 7 | | | | |
| lb/hr | 2.24E+01 | | | 2.24E+01 | |
| ppm | 1.13E+01 | | | 1.13E+01 | |

Location: EUKILN1 South Stack - Method 29**Compound:** Antimony

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.005123 | 0.00014 | 0.000186 | 1.82E-03 | |
| lb / Tons of Pellets Produced | 4.56E-06 | 1.25E-07 | 1.65E-07 | 1.62E-06 | |
| lb/hr | 2.57E-03 | 7.02E-05 | 9.22E-05 | 9.11E-04 | |
| mg/dscm | 1.43E-03 | 3.95E-05 | 5.47E-05 | 5.08E-04 | |

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Compound: Antimony Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000233 | 0.000077 | 0.000093 | 1.34E-04 | |
| lb / Tons of Pellets Produced | 2.08E-07 | 6.88E-08 | 8.25E-08 | 1.20E-07 | |
| lb/hr | 1.17E-04 | 3.86E-05 | 4.61E-05 | 6.72E-05 | |
| mg/dscm | 6.48E-05 | 2.17E-05 | 2.74E-05 | 3.80E-05 | |

Compound: Antimony Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00489 | 0.000063 | 0.000093 | 1.68E-03 | |
| lb / Tons of Pellets Produced | 4.35E-06 | 5.63E-08 | 8.25E-08 | 1.50E-06 | |
| lb/hr | 2.45E-03 | 3.16E-05 | 4.61E-05 | 8.43E-04 | |
| mg/dscm | 1.36E-03 | 1.78E-05 | 2.74E-05 | 4.68E-04 | |

Compound: Arsenic

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000837 | 0.000799 | 0.000772 | 8.03E-04 | |
| lb / Tons of Pellets Produced | 7.46E-07 | 7.15E-07 | 6.85E-07 | 7.15E-07 | |
| lb/hr | 4.20E-04 | 4.01E-04 | 3.83E-04 | 4.01E-04 | |
| mg/dscm | 2.33E-04 | 2.25E-04 | 2.27E-04 | 2.28E-04 | |

Compound: Arsenic Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|-----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000243 | 0.0002765 | 0.000251 | 2.57E-04 | |
| lb / Tons of Pellets Produced | 2.17E-07 | 2.48E-07 | 2.22E-07 | 2.29E-07 | |
| lb/hr | 1.22E-04 | 1.39E-04 | 1.24E-04 | 1.28E-04 | |
| mg/dscm | 6.76E-05 | 7.80E-05 | 7.39E-05 | 7.32E-05 | |

Compound: Arsenic Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|-----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000594 | 0.0005225 | 0.000521 | 5.46E-04 | |
| lb / Tons of Pellets Produced | 5.29E-07 | 4.67E-07 | 4.62E-07 | 4.86E-07 | |
| lb/hr | 2.98E-04 | 2.62E-04 | 2.58E-04 | 2.73E-04 | |
| mg/dscm | 1.65E-04 | 1.47E-04 | 1.53E-04 | 1.55E-04 | |

Compound: Beryllium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000051 | 0.000018 | 0.000018 | 2.90E-05 | |
| lb / Tons of Pellets Produced | 4.55E-08 | 1.61E-08 | 1.60E-08 | 2.59E-08 | |
| lb/hr | 2.56E-05 | 9.02E-06 | 8.92E-06 | 1.45E-05 | |
| mg/dscm | 1.42E-05 | 5.08E-06 | 5.30E-06 | 8.19E-06 | |

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Compound: Beryllium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000005 | 0.000002 | 0.000002 | 3.00E-06 | |
| lb / Tons of Pellets Produced | 4.46E-09 | 1.78E-09 | 1.77E-09 | 2.67E-09 | |
| lb/hr | 2.51E-06 | 1.00E-06 | 9.91E-07 | 1.50E-06 | |
| mg/dscm | 1.39E-06 | 5.64E-07 | 5.89E-07 | 8.48E-07 | |

Compound: Beryllium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000046 | 0.000016 | 0.000016 | 2.60E-05 | |
| lb / Tons of Pellets Produced | 4.10E-08 | 1.43E-08 | 1.42E-08 | 2.32E-08 | |
| lb/hr | 2.31E-05 | 8.02E-06 | 7.93E-06 | 1.30E-05 | |
| mg/dscm | 1.28E-05 | 4.52E-06 | 4.71E-06 | 7.34E-06 | |

Compound: Cadmium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.001398 | 0.001232 | 0.001591 | 1.41E-03 | |
| lb / Tons of Pellets Produced | 1.25E-06 | 1.10E-06 | 1.41E-06 | 1.25E-06 | |
| lb/hr | 7.01E-04 | 6.18E-04 | 7.89E-04 | 7.03E-04 | |
| mg/dscm | 3.89E-04 | 3.48E-04 | 4.68E-04 | 4.02E-04 | |

Compound: Cadmium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.001256 | 0.001096 | 0.001506 | 1.29E-03 | |
| lb / Tons of Pellets Produced | 1.12E-06 | 9.79E-07 | 1.33E-06 | 1.14E-06 | |
| lb/hr | 6.30E-04 | 5.49E-04 | 7.46E-04 | 6.42E-04 | |
| mg/dscm | 3.49E-04 | 3.09E-04 | 4.43E-04 | 3.67E-04 | |

Compound: Cadmium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.000142 | 0.000136 | 0.000085 | 1.21E-04 | |
| lb / Tons of Pellets Produced | 1.26E-07 | 1.22E-07 | 7.53E-08 | 1.08E-07 | |
| lb/hr | 7.12E-05 | 6.82E-05 | 4.21E-05 | 6.05E-05 | |
| mg/dscm | 3.95E-05 | 3.84E-05 | 2.50E-05 | 3.43E-05 | |

Compound: Chromium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.007048 | 0.013208 | 0.004888 | 8.38E-03 | |
| lb / Tons of Pellets Produced | 6.29E-06 | 1.18E-05 | 4.33E-06 | 7.47E-06 | |
| lb/hr | 3.54E-03 | 6.62E-03 | 2.42E-03 | 4.19E-03 | |
| mg/dscm | 1.96E-03 | 3.73E-03 | 1.44E-03 | 2.38E-03 | |

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Compound: Chromium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.004138 | 0.006053 | 0.004268 | 4.82E-03 | |
| lb / Tons of Pellets Produced | 3.69E-06 | 5.40E-06 | 3.79E-06 | 4.29E-06 | |
| lb/hr | 2.08E-03 | 3.03E-03 | 2.12E-03 | 2.41E-03 | |
| mg/dscm | 1.15E-03 | 1.71E-03 | 1.26E-03 | 1.37E-03 | |

Compound: Chromium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00291 | 0.007155 | 0.00062 | 3.56E-03 | |
| lb / Tons of Pellets Produced | 2.59E-06 | 6.40E-06 | 5.49E-07 | 3.18E-06 | |
| lb/hr | 1.46E-03 | 3.59E-03 | 3.07E-04 | 1.79E-03 | |
| mg/dscm | 8.10E-04 | 2.02E-03 | 1.82E-04 | 1.00E-03 | |

Compound: Cobalt

| | | | | Average | Reg Limit |
|-------------------------------|-----------|-----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.0002528 | 0.0001968 | 0.0002 | 2.17E-04 | |
| lb / Tons of Pellets Produced | 2.26E-07 | 1.76E-07 | 1.77E-07 | 1.93E-07 | |
| lb/hr | 1.27E-04 | 9.87E-05 | 9.91E-05 | 1.08E-04 | |
| mg/dscm | 7.03E-05 | 5.55E-05 | 5.89E-05 | 6.16E-05 | |

Compound: Cobalt Back Half

| | | | | Average | Reg Limit |
|-------------------------------|-----------|-----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.0000028 | 0.0000028 | 0.000026 | 1.05E-05 | |
| lb / Tons of Pellets Produced | 2.49E-09 | 2.50E-09 | 2.31E-08 | 9.36E-09 | |
| lb/hr | 1.40E-06 | 1.40E-06 | 1.29E-05 | 5.23E-06 | |
| mg/dscm | 7.79E-07 | 7.90E-07 | 7.65E-06 | 3.07E-06 | |

Compound: Cobalt Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00025 | 0.000194 | 0.000174 | 2.06E-04 | |
| lb / Tons of Pellets Produced | 2.22E-07 | 1.73E-07 | 1.54E-07 | 1.83E-07 | |
| lb/hr | 1.25E-04 | 9.73E-05 | 8.62E-05 | 1.03E-04 | |
| mg/dscm | 6.95E-05 | 5.47E-05 | 5.12E-05 | 5.85E-05 | |

Compound: Filterable Particulate

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 17.8 | 20.1 | 20.3 | 1.94E+01 | |
| lb / Tons of Pellets Produced | 1.59E-02 | 1.80E-02 | 1.81E-02 | 1.73E-02 | |
| lb/hr | 8.93E+00 | 1.01E+01 | 1.01E+01 | 9.71E+00 | |
| mg/dscm | 4.95E+00 | 5.67E+00 | 5.97E+00 | 5.53E+00 | |

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Compound: Lead

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.006052 | 0.005207 | 0.009202 | 6.82E-03 | |
| lb / Tons of Pellets Produced | 5.40E-06 | 4.65E-06 | 8.16E-06 | 6.07E-06 | |
| lb/hr | 3.04E-03 | 2.61E-03 | 4.56E-03 | 3.40E-03 | |
| mg/dscm | 1.68E-03 | 1.47E-03 | 2.71E-03 | 1.95E-03 | |

Compound: Lead Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.004275 | 0.003445 | 0.007265 | 5.00E-03 | |
| lb / Tons of Pellets Produced | 3.80E-06 | 3.08E-06 | 6.44E-06 | 4.44E-06 | |
| lb/hr | 2.14E-03 | 1.73E-03 | 3.60E-03 | 2.49E-03 | |
| mg/dscm | 1.19E-03 | 9.72E-04 | 2.14E-03 | 1.43E-03 | |

Compound: Lead Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.001777 | 0.001762 | 0.001937 | 1.83E-03 | |
| lb / Tons of Pellets Produced | 1.58E-06 | 1.57E-06 | 1.72E-06 | 1.62E-06 | |
| lb/hr | 8.91E-04 | 8.83E-04 | 9.60E-04 | 9.11E-04 | |
| mg/dscm | 4.94E-04 | 4.97E-04 | 5.70E-04 | 5.20E-04 | |

Compound: Manganese

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.097546 | 0.099346 | 0.059046 | 8.53E-02 | |
| lb / Tons of Pellets Produced | 8.69E-05 | 8.88E-05 | 5.24E-05 | 7.60E-05 | |
| lb/hr | 4.89E-02 | 4.98E-02 | 2.93E-02 | 4.27E-02 | |
| mg/dscm | 2.71E-02 | 2.80E-02 | 1.74E-02 | 2.42E-02 | |

Compound: Manganese Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.044215 | 0.049215 | 0.017115 | 3.68E-02 | |
| lb / Tons of Pellets Produced | 3.94E-05 | 4.40E-05 | 1.52E-05 | 3.29E-05 | |
| lb/hr | 2.22E-02 | 2.47E-02 | 8.48E-03 | 1.85E-02 | |
| mg/dscm | 1.23E-02 | 1.39E-02 | 5.04E-03 | 1.04E-02 | |

Compound: Manganese Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.053331 | 0.050131 | 0.041931 | 4.85E-02 | |
| lb / Tons of Pellets Produced | 4.76E-05 | 4.47E-05 | 3.72E-05 | 4.32E-05 | |
| lb/hr | 2.68E-02 | 2.51E-02 | 2.08E-02 | 2.42E-02 | |
| mg/dscm | 1.48E-02 | 1.41E-02 | 1.23E-02 | 1.37E-02 | |

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Compound: Mercury

| | | | | Average | Reg Limit |
|-------------------------------|----------|-----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.004218 | 0.0042695 | 0.003241 | 3.91E-03 | |
| lb / Tons of Pellets Produced | 3.77E-06 | 3.81E-06 | 2.88E-06 | 3.49E-06 | |
| lb/hr | 2.12E-03 | 2.14E-03 | 1.61E-03 | 1.96E-03 | |
| mg/dscm | 1.17E-03 | 1.20E-03 | 9.54E-04 | 1.11E-03 | |

Compound: Mercury Back Half

| | | | | Average | Reg Limit |
|-------------------------------|-----------|----------|-----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.0041505 | 0.004227 | 0.0032195 | 3.87E-03 | |
| lb / Tons of Pellets Produced | 3.69E-06 | 3.78E-06 | 2.86E-06 | 3.44E-06 | |
| lb/hr | 2.08E-03 | 2.12E-03 | 1.60E-03 | 1.93E-03 | |
| mg/dscm | 1.15E-03 | 1.19E-03 | 9.47E-04 | 1.10E-03 | |

Compound: Mercury Front Half

| | | | | Average | Reg Limit |
|-------------------------------|-----------|-----------|-----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.0000675 | 0.0000425 | 0.0000215 | 4.38E-05 | |
| lb / Tons of Pellets Produced | 6.02E-08 | 3.80E-08 | 1.91E-08 | 3.91E-08 | |
| lb/hr | 3.39E-05 | 2.13E-05 | 1.07E-05 | 2.20E-05 | |
| mg/dscm | 1.88E-05 | 1.20E-05 | 6.33E-06 | 1.24E-05 | |

Compound: Nickel

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00496 | 0.004775 | 0.00733 | 5.69E-03 | |
| lb / Tons of Pellets Produced | 4.42E-06 | 4.26E-06 | 6.49E-06 | 5.06E-06 | |
| lb/hr | 2.49E-03 | 2.39E-03 | 3.63E-03 | 2.84E-03 | |
| mg/dscm | 1.38E-03 | 1.35E-03 | 2.16E-03 | 1.63E-03 | |

Compound: Nickel Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00393 | 0.003965 | 0.0062 | 4.70E-03 | |
| lb / Tons of Pellets Produced | 3.50E-06 | 3.55E-06 | 5.49E-06 | 4.18E-06 | |
| lb/hr | 1.97E-03 | 1.99E-03 | 3.07E-03 | 2.34E-03 | |
| mg/dscm | 1.09E-03 | 1.12E-03 | 1.82E-03 | 1.34E-03 | |

Compound: Nickel Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00103 | 0.00081 | 0.00113 | 9.90E-04 | |
| lb / Tons of Pellets Produced | 9.18E-07 | 7.24E-07 | 1.00E-06 | 8.81E-07 | |
| lb/hr | 5.17E-04 | 4.06E-04 | 5.60E-04 | 4.94E-04 | |
| mg/dscm | 2.87E-04 | 2.29E-04 | 3.33E-04 | 2.83E-04 | |

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Compound: Phosphorus (yellow or white)

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.04384 | 0.04245 | 0.04757 | 4.46E-02 | |
| lb / Tons of Pellets Produced | 3.91E-05 | 3.80E-05 | 4.22E-05 | 3.98E-05 | |
| lb/hr | 2.20E-02 | 2.13E-02 | 2.36E-02 | 2.23E-02 | |
| mg/dscm | 1.22E-02 | 1.20E-02 | 1.40E-02 | 1.27E-02 | |

Compound: Phosphorus (yellow or white) Back

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.0342 | 0.0349 | 0.0405 | 3.65E-02 | |
| lb / Tons of Pellets Produced | 3.06E-05 | 3.12E-05 | 3.60E-05 | 3.26E-05 | |
| lb/hr | 1.72E-02 | 1.75E-02 | 2.01E-02 | 1.83E-02 | |
| mg/dscm | 9.51E-03 | 9.85E-03 | 1.19E-02 | 1.04E-02 | |

Compound: Phosphorus (yellow or white) Front

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00964 | 0.00755 | 0.00707 | 8.09E-03 | |
| lb / Tons of Pellets Produced | 8.60E-06 | 6.74E-06 | 6.26E-06 | 7.20E-06 | |
| lb/hr | 4.84E-03 | 3.78E-03 | 3.50E-03 | 4.04E-03 | |
| mg/dscm | 2.68E-03 | 2.13E-03 | 2.08E-03 | 2.30E-03 | |

Compound: Selenium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00596 | 0.005245 | 0.00478 | 5.33E-03 | |
| lb / Tons of Pellets Produced | 5.31E-06 | 4.69E-06 | 4.24E-06 | 4.75E-06 | |
| lb/hr | 2.99E-03 | 2.63E-03 | 2.37E-03 | 2.66E-03 | |
| mg/dscm | 1.66E-03 | 1.48E-03 | 1.41E-03 | 1.52E-03 | |

Compound: Selenium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00159 | 0.0019 | 0.00148 | 1.66E-03 | |
| lb / Tons of Pellets Produced | 1.42E-06 | 1.70E-06 | 1.31E-06 | 1.48E-06 | |
| lb/hr | 7.98E-04 | 9.52E-04 | 7.34E-04 | 8.28E-04 | |
| mg/dscm | 4.42E-04 | 5.36E-04 | 4.36E-04 | 4.71E-04 | |

Compound: Selenium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 1 | 2 | 3 | | |
| Mass_mg | 0.00437 | 0.003345 | 0.0033 | 3.67E-03 | |
| lb / Tons of Pellets Produced | 3.89E-06 | 2.99E-06 | 2.93E-06 | 3.27E-06 | |
| lb/hr | 2.19E-03 | 1.68E-03 | 1.64E-03 | 1.84E-03 | |
| mg/dscm | 1.22E-03 | 9.44E-04 | 9.71E-04 | 1.05E-03 | |

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Location: EUKILN1 South Stack - Method 29 3**Compound:** Antimony

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000704 | 0.00012 | 0.000218 | 3.47E-04 | |
| lb / Tons of Pellets Produced | 6.31E-07 | 1.13E-07 | 2.10E-07 | 3.18E-07 | |
| lb/hr | 3.45E-04 | 5.94E-05 | 1.08E-04 | 1.71E-04 | |
| mg/dscm | 2.07E-04 | 3.46E-05 | 6.27E-05 | 1.01E-04 | |

Compound: Antimony Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000636 | 0.000059 | 0.000128 | 2.74E-04 | |
| lb / Tons of Pellets Produced | 5.70E-07 | 5.55E-08 | 1.23E-07 | 2.50E-07 | |
| lb/hr | 3.12E-04 | 2.92E-05 | 6.36E-05 | 1.35E-04 | |
| mg/dscm | 1.87E-04 | 1.70E-05 | 3.68E-05 | 8.03E-05 | |

Compound: Antimony Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000068 | 0.000061 | 0.00009 | 7.30E-05 | |
| lb / Tons of Pellets Produced | 6.09E-08 | 5.74E-08 | 8.68E-08 | 6.84E-08 | |
| lb/hr | 3.33E-05 | 3.02E-05 | 4.47E-05 | 3.61E-05 | |
| mg/dscm | 2.00E-05 | 1.76E-05 | 2.59E-05 | 2.12E-05 | |

Compound: Arsenic

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000832 | 0.000829 | 0.000795 | 8.19E-04 | |
| lb / Tons of Pellets Produced | 7.46E-07 | 7.79E-07 | 7.67E-07 | 7.64E-07 | |
| lb/hr | 4.08E-04 | 4.10E-04 | 3.95E-04 | 4.04E-04 | |
| mg/dscm | 2.45E-04 | 2.39E-04 | 2.29E-04 | 2.38E-04 | |

Compound: Arsenic Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000269 | 0.000262 | 0.000236 | 2.56E-04 | |
| lb / Tons of Pellets Produced | 2.41E-07 | 2.47E-07 | 2.27E-07 | 2.38E-07 | |
| lb/hr | 1.32E-04 | 1.30E-04 | 1.17E-04 | 1.26E-04 | |
| mg/dscm | 7.91E-05 | 7.55E-05 | 6.79E-05 | 7.42E-05 | |

Compound: Arsenic Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000563 | 0.000567 | 0.000559 | 5.63E-04 | |
| lb / Tons of Pellets Produced | 5.05E-07 | 5.34E-07 | 5.40E-07 | 5.26E-07 | |
| lb/hr | 2.76E-04 | 2.81E-04 | 2.78E-04 | 2.78E-04 | |
| mg/dscm | 1.66E-04 | 1.63E-04 | 1.61E-04 | 1.63E-04 | |

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Compound: Beryllium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000026 | 0.000022 | 0.000021 | 2.30E-05 | |
| lb / Tons of Pellets Produced | 2.32E-08 | 2.07E-08 | 2.02E-08 | 2.14E-08 | |
| lb/hr | 1.27E-05 | 1.09E-05 | 1.04E-05 | 1.13E-05 | |
| mg/dscm | 7.64E-06 | 6.34E-06 | 6.04E-06 | 6.67E-06 | |

Compound: Beryllium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000003 | 0.000004 | 0.000002 | 3.00E-06 | |
| lb / Tons of Pellets Produced | 2.69E-09 | 3.76E-09 | 1.93E-09 | 2.79E-09 | |
| lb/hr | 1.47E-06 | 1.98E-06 | 9.94E-07 | 1.48E-06 | |
| mg/dscm | 8.82E-07 | 1.15E-06 | 5.75E-07 | 8.69E-07 | |

Compound: Beryllium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000023 | 0.000018 | 0.000019 | 2.00E-05 | |
| lb / Tons of Pellets Produced | 2.07E-08 | 1.69E-08 | 1.83E-08 | 1.86E-08 | |
| lb/hr | 1.13E-05 | 8.91E-06 | 9.44E-06 | 9.88E-06 | |
| mg/dscm | 6.76E-06 | 5.19E-06 | 5.47E-06 | 5.81E-06 | |

Compound: Cadmium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.001275 | 0.001772 | 0.001655 | 1.57E-03 | |
| lb / Tons of Pellets Produced | 1.14E-06 | 1.67E-06 | 1.60E-06 | 1.47E-06 | |
| lb/hr | 6.25E-04 | 8.77E-04 | 8.22E-04 | 7.75E-04 | |
| mg/dscm | 3.75E-04 | 5.11E-04 | 4.76E-04 | 4.54E-04 | |

Compound: Cadmium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.001146 | 0.001656 | 0.001616 | 1.47E-03 | |
| lb / Tons of Pellets Produced | 1.03E-06 | 1.56E-06 | 1.56E-06 | 1.38E-06 | |
| lb/hr | 5.62E-04 | 8.19E-04 | 8.03E-04 | 7.28E-04 | |
| mg/dscm | 3.37E-04 | 4.77E-04 | 4.65E-04 | 4.26E-04 | |

Compound: Cadmium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000129 | 0.000116 | 0.000039 | 9.47E-05 | |
| lb / Tons of Pellets Produced | 1.16E-07 | 1.09E-07 | 3.77E-08 | 8.76E-08 | |
| lb/hr | 6.32E-05 | 5.74E-05 | 1.94E-05 | 4.67E-05 | |
| mg/dscm | 3.79E-05 | 3.34E-05 | 1.12E-05 | 2.75E-05 | |

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Compound: Chromium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.004408 | 0.006248 | 0.006198 | 5.62E-03 | |
| lb / Tons of Pellets Produced | 3.95E-06 | 5.87E-06 | 5.98E-06 | 5.27E-06 | |
| lb/hr | 2.16E-03 | 3.09E-03 | 3.08E-03 | 2.78E-03 | |
| mg/dscm | 1.30E-03 | 1.80E-03 | 1.78E-03 | 1.63E-03 | |

Compound: Chromium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.003068 | 0.005038 | 0.004768 | 4.29E-03 | |
| lb / Tons of Pellets Produced | 2.74E-06 | 4.73E-06 | 4.60E-06 | 4.02E-06 | |
| lb/hr | 1.50E-03 | 2.49E-03 | 2.37E-03 | 2.12E-03 | |
| mg/dscm | 9.02E-04 | 1.45E-03 | 1.37E-03 | 1.24E-03 | |

Compound: Chromium Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00134 | 0.00121 | 0.00143 | 1.33E-03 | |
| lb / Tons of Pellets Produced | 1.20E-06 | 1.14E-06 | 1.38E-06 | 1.24E-06 | |
| lb/hr | 6.57E-04 | 5.99E-04 | 7.11E-04 | 6.56E-04 | |
| mg/dscm | 3.94E-04 | 3.49E-04 | 4.11E-04 | 3.85E-04 | |

Compound: Cobalt

| | | | | Average | Reg Limit |
|-------------------------------|-----------|-----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0002008 | 0.0001938 | 0.000218 | 2.04E-04 | |
| lb / Tons of Pellets Produced | 1.80E-07 | 1.82E-07 | 2.10E-07 | 1.91E-07 | |
| lb/hr | 9.84E-05 | 9.59E-05 | 1.08E-04 | 1.01E-04 | |
| mg/dscm | 5.90E-05 | 5.59E-05 | 6.27E-05 | 5.92E-05 | |

Compound: Cobalt Back Half

| | | | | Average | Reg Limit |
|-------------------------------|-----------|-----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0000028 | 0.0000028 | 0.000021 | 8.87E-06 | |
| lb / Tons of Pellets Produced | 2.50E-09 | 2.64E-09 | 2.02E-08 | 8.45E-09 | |
| lb/hr | 1.37E-06 | 1.39E-06 | 1.04E-05 | 4.39E-06 | |
| mg/dscm | 8.23E-07 | 8.07E-07 | 6.04E-06 | 2.56E-06 | |

Compound: Cobalt Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------|-----------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.000198 | 0.000191 | 0.000197 | 1.95E-04 | |
| lb / Tons of Pellets Produced | 1.78E-07 | 1.80E-07 | 1.90E-07 | 1.83E-07 | |
| lb/hr | 9.71E-05 | 9.45E-05 | 9.79E-05 | 9.65E-05 | |
| mg/dscm | 5.82E-05 | 5.51E-05 | 5.67E-05 | 5.67E-05 | |

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Compound: Filterable Particulate

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 22.2 | 19.4 | 18.6 | 2.01E+01 | |
| lb / Tons of Pellets Produced | 1.99E-02 | 1.83E-02 | 1.79E-02 | 1.87E-02 | |
| lb/hr | 1.09E+01 | 9.60E+00 | 9.24E+00 | 9.91E+00 | |
| mg/dscm | 6.53E+00 | 5.59E+00 | 5.35E+00 | 5.82E+00 | |

Compound: Lead

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.004562 | 0.007682 | 0.005792 | 6.01E-03 | |
| lb / Tons of Pellets Produced | 4.10E-06 | 7.22E-06 | 5.59E-06 | 5.64E-06 | |
| lb/hr | 2.24E-03 | 3.80E-03 | 2.88E-03 | 2.97E-03 | |
| mg/dscm | 1.34E-03 | 2.21E-03 | 1.67E-03 | 1.74E-03 | |

Compound: Lead Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.002335 | 0.005525 | 0.003665 | 3.84E-03 | |
| lb / Tons of Pellets Produced | 2.08E-06 | 5.19E-06 | 3.53E-06 | 3.60E-06 | |
| lb/hr | 1.14E-03 | 2.73E-03 | 1.82E-03 | 1.90E-03 | |
| mg/dscm | 6.87E-04 | 1.59E-03 | 1.05E-03 | 1.11E-03 | |

Compound: Lead Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.002227 | 0.002157 | 0.002127 | 2.17E-03 | |
| lb / Tons of Pellets Produced | 1.99E-06 | 2.03E-06 | 2.06E-06 | 2.03E-06 | |
| lb/hr | 1.09E-03 | 1.07E-03 | 1.06E-03 | 1.07E-03 | |
| mg/dscm | 6.55E-04 | 6.22E-04 | 6.12E-04 | 6.30E-04 | |

Compound: Manganese

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.064746 | 0.087246 | 0.057746 | 6.99E-02 | |
| lb / Tons of Pellets Produced | 5.80E-05 | 8.21E-05 | 5.57E-05 | 6.53E-05 | |
| lb/hr | 3.17E-02 | 4.32E-02 | 2.87E-02 | 3.45E-02 | |
| mg/dscm | 1.90E-02 | 2.52E-02 | 1.66E-02 | 2.03E-02 | |

Compound: Manganese Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.015115 | 0.037515 | 0.010815 | 2.11E-02 | |
| lb / Tons of Pellets Produced | 1.35E-05 | 3.54E-05 | 1.04E-05 | 1.98E-05 | |
| lb/hr | 7.41E-03 | 1.86E-02 | 5.37E-03 | 1.05E-02 | |
| mg/dscm | 4.44E-03 | 1.08E-02 | 3.11E-03 | 6.12E-03 | |

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Compound: Manganese Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.049631 | 0.049731 | 0.046931 | 4.88E-02 | |
| lb / Tons of Pellets Produced | 4.44E-05 | 4.68E-05 | 4.52E-05 | 4.55E-05 | |
| lb/hr | 2.43E-02 | 2.46E-02 | 2.33E-02 | 2.41E-02 | |
| mg/dscm | 1.46E-02 | 1.43E-02 | 1.35E-02 | 1.41E-02 | |

Compound: Mercury

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|-----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.003519 | 0.002616 | 0.0025025 | 2.88E-03 | |
| lb / Tons of Pellets Produced | 3.16E-06 | 2.45E-06 | 2.41E-06 | 2.67E-06 | |
| lb/hr | 1.73E-03 | 1.29E-03 | 1.24E-03 | 1.42E-03 | |
| mg/dscm | 1.03E-03 | 7.54E-04 | 7.20E-04 | 8.35E-04 | |

Compound: Mercury Back Half

| | | | | Average | Reg Limit |
|-------------------------------|-----------|----------|-----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0034945 | 0.002591 | 0.0024825 | 2.86E-03 | |
| lb / Tons of Pellets Produced | 3.13E-06 | 2.43E-06 | 2.39E-06 | 2.65E-06 | |
| lb/hr | 1.71E-03 | 1.28E-03 | 1.23E-03 | 1.41E-03 | |
| mg/dscm | 1.03E-03 | 7.47E-04 | 7.14E-04 | 8.30E-04 | |

Compound: Mercury Front Half

| | | | | Average | Reg Limit |
|-------------------------------|-----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0000245 | 0.000025 | 0.00002 | 2.32E-05 | |
| lb / Tons of Pellets Produced | 2.19E-08 | 2.36E-08 | 1.93E-08 | 2.16E-08 | |
| lb/hr | 1.20E-05 | 1.24E-05 | 9.94E-06 | 1.14E-05 | |
| mg/dscm | 7.20E-06 | 7.21E-06 | 5.75E-06 | 6.72E-06 | |

Compound: Nickel

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00525 | 0.0072 | 0.02612 | 1.29E-02 | |
| lb / Tons of Pellets Produced | 4.70E-06 | 6.77E-06 | 2.52E-05 | 1.22E-05 | |
| lb/hr | 2.57E-03 | 3.56E-03 | 1.30E-02 | 6.38E-03 | |
| mg/dscm | 1.54E-03 | 2.08E-03 | 7.51E-03 | 3.71E-03 | |

Compound: Nickel Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00345 | 0.00553 | 0.0086 | 5.86E-03 | |
| lb / Tons of Pellets Produced | 3.09E-06 | 5.21E-06 | 8.29E-06 | 5.53E-06 | |
| lb/hr | 1.69E-03 | 2.74E-03 | 4.27E-03 | 2.90E-03 | |
| mg/dscm | 1.01E-03 | 1.59E-03 | 2.47E-03 | 1.69E-03 | |

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Compound: Nickel Front Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0018 | 0.00167 | 0.01752 | 7.00E-03 | |
| lb / Tons of Pellets Produced | 1.61E-06 | 1.57E-06 | 1.69E-05 | 6.69E-06 | |
| lb/hr | 8.82E-04 | 8.26E-04 | 8.71E-03 | 3.47E-03 | |
| mg/dscm | 5.29E-04 | 4.81E-04 | 5.04E-03 | 2.02E-03 | |

Compound: Phosphorus (yellow or white)

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.03732 | 0.0395 | 0.03953 | 3.88E-02 | |
| lb / Tons of Pellets Produced | 3.35E-05 | 3.71E-05 | 3.81E-05 | 3.62E-05 | |
| lb/hr | 1.83E-02 | 1.95E-02 | 1.96E-02 | 1.91E-02 | |
| mg/dscm | 1.10E-02 | 1.14E-02 | 1.14E-02 | 1.13E-02 | |

Compound: Phosphorus (yellow or white) Back

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0295 | 0.0321 | 0.0317 | 3.11E-02 | |
| lb / Tons of Pellets Produced | 2.65E-05 | 3.02E-05 | 3.07E-05 | 2.91E-05 | |
| lb/hr | 1.45E-02 | 1.59E-02 | 1.58E-02 | 1.54E-02 | |
| mg/dscm | 8.67E-03 | 9.25E-03 | 9.12E-03 | 9.01E-03 | |

Compound: Phosphorus (yellow or white) Front

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00782 | 0.0074 | 0.00783 | 7.68E-03 | |
| lb / Tons of Pellets Produced | 7.00E-06 | 6.96E-06 | 7.55E-06 | 7.17E-06 | |
| lb/hr | 3.83E-03 | 3.66E-03 | 3.89E-03 | 3.79E-03 | |
| mg/dscm | 2.30E-03 | 2.13E-03 | 2.25E-03 | 2.23E-03 | |

Compound: Selenium

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00532 | 0.00512 | 0.00485 | 5.10E-03 | |
| lb / Tons of Pellets Produced | 4.77E-06 | 4.81E-06 | 4.68E-06 | 4.75E-06 | |
| lb/hr | 2.61E-03 | 2.53E-03 | 2.41E-03 | 2.52E-03 | |
| mg/dscm | 1.56E-03 | 1.48E-03 | 1.40E-03 | 1.48E-03 | |

Compound: Selenium Back Half

| | | | | Average | Reg Limit |
|-------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.00172 | 0.00154 | 0.00148 | 1.58E-03 | |
| lb / Tons of Pellets Produced | 1.54E-06 | 1.45E-06 | 1.43E-06 | 1.47E-06 | |
| lb/hr | 8.43E-04 | 7.62E-04 | 7.35E-04 | 7.80E-04 | |
| mg/dscm | 5.06E-04 | 4.44E-04 | 4.26E-04 | 4.59E-04 | |

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Compound: Selenium Front Half

| | | | | Average | Reg Limit |
|----------------------------------|----------|----------|----------|----------------|------------------|
| RunNumber | 4 | 5 | 6 | | |
| Mass_mg | 0.0036 | 0.00358 | 0.00337 | 3.52E-03 | |
| lb / Tons of Pellets Produced | 3.22E-06 | 3.37E-06 | 3.24E-06 | 3.28E-06 | |
| lb/hr | 1.76E-03 | 1.77E-03 | 1.67E-03 | 1.73E-03 | |
| mg/dscm | 1.06E-03 | 1.03E-03 | 9.70E-04 | 1.02E-03 | |

Location: EUKILN1 South Stack - Method 29 3 6**Compound:** Antimony

| | | | | Average | Reg Limit |
|----------------------------------|----------|--|--|----------------|------------------|
| RunNumber | 7 | | | | |
| Mass_mg | 0.000111 | | | 1.11E-04 | |
| lb / Tons of Pellets Produced | 1.04E-07 | | | 1.04E-07 | |
| lb/hr | 5.63E-05 | | | 5.63E-05 | |
| mg/dscm | 3.30E-05 | | | 3.30E-05 | |

Compound: Antimony Back Half

| | | | | Average | Reg Limit |
|----------------------------------|----------|--|--|----------------|------------------|
| RunNumber | 7 | | | | |
| Mass_mg | 0.000056 | | | 5.60E-05 | |
| lb / Tons of Pellets Produced | 5.26E-08 | | | 5.26E-08 | |
| lb/hr | 2.84E-05 | | | 2.84E-05 | |
| mg/dscm | 1.66E-05 | | | 1.66E-05 | |

Compound: Antimony Front Half

| | | | | Average | Reg Limit |
|----------------------------------|----------|--|--|----------------|------------------|
| RunNumber | 7 | | | | |
| Mass_mg | 0.000055 | | | 5.50E-05 | |
| lb / Tons of Pellets Produced | 5.17E-08 | | | 5.17E-08 | |
| lb/hr | 2.79E-05 | | | 2.79E-05 | |
| mg/dscm | 1.63E-05 | | | 1.63E-05 | |

Compound: Arsenic

| | | | | Average | Reg Limit |
|----------------------------------|----------|--|--|----------------|------------------|
| RunNumber | 7 | | | | |
| Mass_mg | 0.000647 | | | 6.47E-04 | |
| lb / Tons of Pellets Produced | 6.07E-07 | | | 6.07E-07 | |
| lb/hr | 3.28E-04 | | | 3.28E-04 | |
| mg/dscm | 1.92E-04 | | | 1.92E-04 | |

Compound: Arsenic Back Half

| | | | | Average | Reg Limit |
|----------------------------------|----------|--|--|----------------|------------------|
| RunNumber | 7 | | | | |
| Mass_mg | 0.000236 | | | 2.36E-04 | |
| lb / Tons of Pellets Produced | 2.22E-07 | | | 2.22E-07 | |
| lb/hr | 1.20E-04 | | | 1.20E-04 | |

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|---------------------------------------|----------|----------------|------------------|
| mg/dscm | 7.01E-05 | 7.01E-05 | |
| Compound: Arsenic Front Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000411 | 4.11E-04 | |
| lb / Tons of Pellets | 3.85E-07 | 3.85E-07 | |
| Produced | | | |
| lb/hr | 2.08E-04 | 2.08E-04 | |
| mg/dscm | 1.22E-04 | 1.22E-04 | |
| Compound: Beryllium | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000017 | 1.70E-05 | |
| lb / Tons of Pellets | 1.60E-08 | 1.60E-08 | |
| Produced | | | |
| lb/hr | 8.62E-06 | 8.62E-06 | |
| mg/dscm | 5.05E-06 | 5.05E-06 | |
| Compound: Beryllium Back Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000002 | 2.00E-06 | |
| lb / Tons of Pellets | 1.87E-09 | 1.87E-09 | |
| Produced | | | |
| lb/hr | 1.01E-06 | 1.01E-06 | |
| mg/dscm | 5.94E-07 | 5.94E-07 | |
| Compound: Beryllium Front Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000015 | 1.50E-05 | |
| lb / Tons of Pellets | 1.41E-08 | 1.41E-08 | |
| Produced | | | |
| lb/hr | 7.60E-06 | 7.60E-06 | |
| mg/dscm | 4.46E-06 | 4.46E-06 | |
| Compound: Cadmium | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.001424 | 1.42E-03 | |
| lb / Tons of Pellets | 1.34E-06 | 1.34E-06 | |
| Produced | | | |
| lb/hr | 7.22E-04 | 7.22E-04 | |
| mg/dscm | 4.23E-04 | 4.23E-04 | |
| Compound: Cadmium Back Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.001356 | 1.36E-03 | |
| lb / Tons of Pellets | 1.27E-06 | 1.27E-06 | |
| Produced | | | |
| lb/hr | 6.87E-04 | 6.87E-04 | |

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| | | | |
|--------------------------------------|----------|----------------|------------------|
| mg/dscm | 4.03E-04 | 4.03E-04 | |
| Compound: Cadmium Front Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000068 | 6.80E-05 | |
| lb / Tons of Pellets | 6.39E-08 | 6.39E-08 | |
| Produced | | | |
| lb/hr | 3.45E-05 | 3.45E-05 | |
| mg/dscm | 2.02E-05 | 2.02E-05 | |
| Compound: Chromium | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.006958 | 6.96E-03 | |
| lb / Tons of Pellets | 6.54E-06 | 6.54E-06 | |
| Produced | | | |
| lb/hr | 3.53E-03 | 3.53E-03 | |
| mg/dscm | 2.07E-03 | 2.07E-03 | |
| Compound: Chromium Back Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.006118 | 6.12E-03 | |
| lb / Tons of Pellets | 5.74E-06 | 5.74E-06 | |
| Produced | | | |
| lb/hr | 3.10E-03 | 3.10E-03 | |
| mg/dscm | 1.82E-03 | 1.82E-03 | |
| Compound: Chromium Front Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.00084 | 8.40E-04 | |
| lb / Tons of Pellets | 7.89E-07 | 7.89E-07 | |
| Produced | | | |
| lb/hr | 4.26E-04 | 4.26E-04 | |
| mg/dscm | 2.50E-04 | 2.50E-04 | |
| Compound: Cobalt | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000187 | 1.87E-04 | |
| lb / Tons of Pellets | 1.76E-07 | 1.76E-07 | |
| Produced | | | |
| lb/hr | 9.48E-05 | 9.48E-05 | |
| mg/dscm | 5.56E-05 | 5.56E-05 | |
| Compound: Cobalt Back Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000026 | 2.60E-05 | |
| lb / Tons of Pellets | 2.44E-08 | 2.44E-08 | |
| Produced | | | |
| lb/hr | 1.32E-05 | 1.32E-05 | |

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| | | | |
|---|----------|----------------|------------------|
| mg/dscm | 7.73E-06 | 7.73E-06 | |
| Compound: Cobalt Front Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.000161 | 1.61E-04 | |
| lb / Tons of Pellets | 1.51E-07 | 1.51E-07 | |
| Produced | | | |
| lb/hr | 8.16E-05 | 8.16E-05 | |
| mg/dscm | 4.78E-05 | 4.78E-05 | |
| Compound: Filterable Particulate | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 19.9 | 1.99E+01 | |
| lb / Tons of Pellets | 1.87E-02 | 1.87E-02 | |
| Produced | | | |
| lb/hr | 1.01E+01 | 1.01E+01 | |
| mg/dscm | 5.91E+00 | 5.91E+00 | |
| Compound: Lead | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.005512 | 5.51E-03 | |
| lb / Tons of Pellets | 5.17E-06 | 5.17E-06 | |
| Produced | | | |
| lb/hr | 2.79E-03 | 2.79E-03 | |
| mg/dscm | 1.64E-03 | 1.64E-03 | |
| Compound: Lead Back Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.004065 | 4.07E-03 | |
| lb / Tons of Pellets | 3.81E-06 | 3.81E-06 | |
| Produced | | | |
| lb/hr | 2.06E-03 | 2.06E-03 | |
| mg/dscm | 1.21E-03 | 1.21E-03 | |
| Compound: Lead Front Half | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.001447 | 1.45E-03 | |
| lb / Tons of Pellets | 1.36E-06 | 1.36E-06 | |
| Produced | | | |
| lb/hr | 7.33E-04 | 7.33E-04 | |
| mg/dscm | 4.30E-04 | 4.30E-04 | |
| Compound: Manganese | | | |
| | | Average | Reg Limit |
| RunNumber | 7 | | |
| Mass_mg | 0.050546 | 5.05E-02 | |
| lb / Tons of Pellets | 4.74E-05 | 4.74E-05 | |
| Produced | | | |
| lb/hr | 2.56E-02 | 2.56E-02 | |

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| | | |
|---------------------------------------|-----------|--------------------------|
| mg/dscm | 1.50E-02 | 1.50E-02 |
| Compound: Manganese Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.012615 | 1.26E-02 |
| lb / Tons of Pellets | 1.18E-05 | 1.18E-05 |
| Produced | | |
| lb/hr | 6.39E-03 | 6.39E-03 |
| mg/dscm | 3.75E-03 | 3.75E-03 |
| Compound: Manganese Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.037931 | 3.79E-02 |
| lb / Tons of Pellets | 3.56E-05 | 3.56E-05 |
| Produced | | |
| lb/hr | 1.92E-02 | 1.92E-02 |
| mg/dscm | 1.13E-02 | 1.13E-02 |
| Compound: Mercury | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.0015895 | 1.59E-03 |
| lb / Tons of Pellets | 1.49E-06 | 1.49E-06 |
| Produced | | |
| lb/hr | 8.06E-04 | 8.06E-04 |
| mg/dscm | 4.72E-04 | 4.72E-04 |
| Compound: Mercury Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.0015695 | 1.57E-03 |
| lb / Tons of Pellets | 1.47E-06 | 1.47E-06 |
| Produced | | |
| lb/hr | 7.95E-04 | 7.95E-04 |
| mg/dscm | 4.66E-04 | 4.66E-04 |
| Compound: Mercury Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.00002 | 2.00E-05 |
| lb / Tons of Pellets | 1.87E-08 | 1.87E-08 |
| Produced | | |
| lb/hr | 1.01E-05 | 1.01E-05 |
| mg/dscm | 5.94E-06 | 5.94E-06 |
| Compound: Nickel | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.01373 | 1.37E-02 |
| lb / Tons of Pellets | 1.29E-05 | 1.29E-05 |
| Produced | | |
| lb/hr | 6.96E-03 | 6.96E-03 |

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| | | |
|---|----------|--------------------------|
| mg/dscm | 4.08E-03 | 4.08E-03 |
| Compound: Nickel Back Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.0094 | 9.40E-03 |
| lb / Tons of Pellets | 8.81E-06 | 8.81E-06 |
| Produced | | |
| lb/hr | 4.76E-03 | 4.76E-03 |
| mg/dscm | 2.79E-03 | 2.79E-03 |
| Compound: Nickel Front Half | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.00433 | 4.33E-03 |
| lb / Tons of Pellets | 4.06E-06 | 4.06E-06 |
| Produced | | |
| lb/hr | 2.19E-03 | 2.19E-03 |
| mg/dscm | 1.29E-03 | 1.29E-03 |
| Compound: Phosphorus (yellow or white) | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.04104 | 4.10E-02 |
| lb / Tons of Pellets | 3.85E-05 | 3.85E-05 |
| Produced | | |
| lb/hr | 2.08E-02 | 2.08E-02 |
| mg/dscm | 1.22E-02 | 1.22E-02 |
| Compound: Phosphorus (yellow or white) Back | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.0344 | 3.44E-02 |
| lb / Tons of Pellets | 3.22E-05 | 3.22E-05 |
| Produced | | |
| lb/hr | 1.74E-02 | 1.74E-02 |
| mg/dscm | 1.02E-02 | 1.02E-02 |
| Compound: Phosphorus (yellow or white) Front | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.00664 | 6.64E-03 |
| lb / Tons of Pellets | 6.24E-06 | 6.24E-06 |
| Produced | | |
| lb/hr | 3.37E-03 | 3.37E-03 |
| mg/dscm | 1.97E-03 | 1.97E-03 |
| Compound: Selenium | | |
| | | Average Reg Limit |
| RunNumber | 7 | |
| Mass_mg | 0.00368 | 3.68E-03 |
| lb / Tons of Pellets | 3.46E-06 | 3.46E-06 |
| Produced | | |
| lb/hr | 1.87E-03 | 1.87E-03 |

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| | | | | |
|--|----------|----------|----------|--------------------------|
| mg/dscm | 1.09E-03 | | | 1.09E-03 |
| Compound: Selenium Back Half | | | | |
| | | | | Average Reg Limit |
| RunNumber | 7 | | | |
| Mass_mg | 0.00119 | | | 1.19E-03 |
| lb / Tons of Pellets | 1.12E-06 | | | 1.12E-06 |
| Produced | | | | |
| lb/hr | 6.03E-04 | | | 6.03E-04 |
| mg/dscm | 3.54E-04 | | | 3.54E-04 |
| Compound: Selenium Front Half | | | | |
| | | | | Average Reg Limit |
| RunNumber | 7 | | | |
| Mass_mg | 0.00249 | | | 2.49E-03 |
| lb / Tons of Pellets | 2.33E-06 | | | 2.33E-06 |
| Produced | | | | |
| lb/hr | 1.26E-03 | | | 1.26E-03 |
| mg/dscm | 7.40E-04 | | | 7.40E-04 |
| Location: EUKILN1 South Stack - Method 3A CO2 | | | | |
| Compound: Carbon Dioxide | | | | |
| | | | | Average Reg Limit |
| Run | 1 | 2 | 3 | |
| Percent(%) | 3.43E+00 | 3.64E+00 | 3.64E+00 | 3.57E+00 |
| Location: EUKILN1 South Stack - Method 3A CO2 3 | | | | |
| Compound: Carbon Dioxide | | | | |
| | | | | Average Reg Limit |
| Run | 4 | 5 | 6 | |
| Percent(%) | 3.74E+00 | 3.74E+00 | 3.74E+00 | 3.74E+00 |
| Location: EUKILN1 South Stack - Method 3A CO2 3 6 | | | | |
| Compound: Carbon Dioxide | | | | |
| | | | | Average Reg Limit |
| Run | 7 | | | |
| Percent(%) | 3.85E+00 | | | 3.85E+00 |
| Location: EUKILN1 South Stack - Method 3A O2 | | | | |
| Compound: Oxygen | | | | |
| | | | | Average Reg Limit |
| Run | 1 | 2 | 3 | |
| Percent(%) | 1.69E+01 | 1.66E+01 | 1.69E+01 | 1.68E+01 |
| Location: EUKILN1 South Stack - Method 3A O2 3 | | | | |
| Compound: Oxygen | | | | |
| | | | | Average Reg Limit |
| Run | 4 | 5 | 6 | |
| Percent(%) | 1.67E+01 | 1.69E+01 | 1.70E+01 | 1.69E+01 |
| Location: EUKILN1 South Stack - Method 3A O2 3 6 | | | | |
| Compound: Oxygen | | | | |
| | | | | Average Reg Limit |
| Run | 7 | | | |

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| | | | | |
|--|----------|----------|----------------|------------------|
| Percent(%) | 1.72E+01 | | 1.72E+01 | |
| Location: EUKILN1 South Stack HCL HF Test - Method 10 | | | | |
| Compound: Carbon Monoxide | | | | |
| | | | Average | Reg Limit |
| Run | 1 | 2 | 3 | |
| lb/hr | 2.78E+01 | 2.59E+01 | 2.73E+01 | 2.70E+01 |
| ppm | 1.38E+01 | 1.30E+01 | 1.32E+01 | 1.33E+01 |
| Location: EUKILN1 South Stack HCL HF Test - Method 26A | | | | |
| Compound: Hydrogen Chloride | | | | |
| | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 92.882 | 98.88 | 102.647 | 9.81E+01 |
| lb / Tons of Pellets Produced | 1.23E-01 | 1.28E-01 | 1.36E-01 | 1.29E-01 |
| lb/hr | 6.93E+01 | 7.35E+01 | 7.67E+01 | 7.32E+01 |
| mg/dscm | 4.00E+01 | 4.29E+01 | 4.31E+01 | 4.20E+01 |
| Compound: Hydrogen Fluoride | | | | |
| | | | Average | Reg Limit |
| RunNumber | 1 | 2 | 3 | |
| Mass_mg | 4.408 | 6.388 | 7.568 | 6.12E+00 |
| lb / Tons of Pellets Produced | 5.82E-03 | 8.30E-03 | 9.98E-03 | 8.03E-03 |
| lb/hr | 3.29E+00 | 4.75E+00 | 5.65E+00 | 4.56E+00 |
| mg/dscm | 1.90E+00 | 2.77E+00 | 3.18E+00 | 2.62E+00 |
| Location: EUKILN1 South Stack HCL HF Test - Method 3A CO2 | | | | |
| Compound: Carbon Dioxide | | | | |
| | | | Average | Reg Limit |
| Run | 1 | 2 | 3 | |
| Percent(%) | 3.62E+00 | 3.62E+00 | 3.62E+00 | 3.62E+00 |
| Location: EUKILN1 South Stack HCL HF Test - Method 3A O2 | | | | |
| Compound: Oxygen | | | | |
| | | | Average | Reg Limit |
| Run | 1 | 2 | 3 | |
| Percent(%) | 1.70E+01 | 1.70E+01 | 1.70E+01 | 1.70E+01 |

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Process Run Data

| | | | | | | | |
|----------|---|-----------------------|------------|-------------|----------|------|----------|
| Process: | Pellets Produced | | | | | SCC: | 30302350 |
| Comment: | Process Data recorded in Long Tons Per Hour | | | | | | |
| Run | Value | Unit of Measure | Target Low | Target High | Comment | | |
| 1 | 565 | Tons/hr | 500 | 600 | M26A | | |
| 2 | 572 | Tons/hr | 500 | 600 | M26A | | |
| 3 | 566 | Tons/hr | 500 | 600 | M26A | | |
| 4 | 563 | Tons/hr | 500 | 600 | M29 | | |
| 5 | 561 | Tons/hr | 500 | 600 | M29 | | |
| 6 | 559 | Tons/hr | 500 | 600 | M29 | | |
| 7 | 547 | Tons/hr | 500 | 600 | M29 | | |
| 8 | 526 | Tons/hr | 500 | 600 | M29 | | |
| 9 | 515 | Tons/hr | 500 | 600 | M29 | | |
| 10 | 540 | Tons/hr | 500 | 600 | M29 | | |
| Process: | Natural Gas Burned | | | | | SCC: | |
| Comment: | | | | | | | |
| Run | Value | Unit of Measure | Target Low | Target High | Comment | | |
| 1 | 473 | Million Cubic Feet/hr | 0 | 0 | M26A | | |
| 2 | 473 | Million Cubic Feet/hr | 0 | 0 | M26A | | |
| 3 | 464 | Million Cubic Feet/hr | 0 | 0 | M26A | | |
| 4 | 440 | Million Cubic Feet/hr | 0 | 0 | M29 | | |
| 5 | 478 | Million Cubic Feet/hr | 0 | 0 | M29 | | |
| 6 | 466 | Million Cubic Feet/hr | 0 | 0 | M29 | | |
| 7 | 486 | Million Cubic Feet/hr | 0 | 0 | M29 | | |
| 8 | 468 | Million Cubic Feet/hr | 0 | 0 | M29 | | |
| 9 | 462 | Million Cubic Feet/hr | 0 | 0 | M29 | | |
| 10 | 459 | Million Cubic Feet/hr | 0 | 0 | M29 | | |
| Process: | Limestone Mixed | | | | | SCC: | |
| Comment: | CBI | | | | | | |
| Run | Value | Unit of Measure | Target Low | Target High | Comment | | |
| 1 | | Tons/hr | 0 | 0 | M26A CBI | | |
| 2 | | Tons/hr | 0 | 0 | M26A CBI | | |
| 3 | | Tons/hr | 0 | 0 | M26A CBI | | |
| 4 | | Tons/hr | 0 | 0 | M29 CBI | | |
| 5 | | Tons/hr | 0 | 0 | M29 CBI | | |
| 6 | | Tons/hr | 0 | 0 | M29 CBI | | |
| 7 | | Tons/hr | 0 | 0 | M29 CBI | | |
| 8 | | Tons/hr | 0 | 0 | M29 CBI | | |
| 9 | | Tons/hr | 0 | 0 | M29 CBI | | |
| 10 | | Tons/hr | 0 | 0 | M29 CBI | | |
| Process: | Bentonite Mixed | | | | | SCC: | |
| Comment: | CBI | | | | | | |
| Run | Value | Unit of Measure | Target Low | Target High | Comment | | |
| 1 | | Tons/hr | 0 | 0 | M26A CBI | | |
| 2 | | Tons/hr | 0 | 0 | M26A CBI | | |
| 3 | | Tons/hr | 0 | 0 | M26A CBI | | |

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| | | | | | |
|----------|-------------------------------|--------------------|------------|-------------|---------|
| 4 | Tons/hr | 0 | 0 | M29 CBI | |
| 5 | Tons/hr | 0 | 0 | M29 CBI | |
| 6 | Tons/hr | 0 | 0 | M29 CBI | |
| 7 | Tons/hr | 0 | 0 | M29 CBI | |
| 8 | Tons/hr | 0 | 0 | M29 CBI | |
| 9 | Tons/hr | 0 | 0 | M29 CBI | |
| 10 | Tons/hr | 0 | 0 | M29 CBI | |
| Process: | Average Opacity COM Recorded | | | SCC: | |
| Comment: | South Stack Average % Opacity | | | | |
| Run | Value | Unit of Measure | Target Low | Target High | Comment |
| 1 | 4.15 | Percent Opacity/hr | 0 | 0 | M26A |
| 2 | 3.65 | Percent Opacity/hr | 0 | 0 | M26A |
| 3 | 3.39 | Percent Opacity/hr | 0 | 0 | M26A |
| 4 | 3.72 | Percent Opacity/hr | 0 | 0 | M29 |
| 5 | 3.64 | Percent Opacity/hr | 0 | 0 | M29 |
| 6 | 3.77 | Percent Opacity/hr | 0 | 0 | M29 |
| 7 | 3.43 | Percent Opacity/hr | 0 | 0 | M29 |
| 8 | 2.96 | Percent Opacity/hr | 0 | 0 | M29 |
| 9 | 3.11 | Percent Opacity/hr | 0 | 0 | M29 |
| 10 | 3.26 | Percent Opacity/hr | 0 | 0 | M29 |
| Process: | Average Opacity COM Recorded | | | SCC: | |
| Comment: | North Stack Average % Opacity | | | | |
| Run | Value | Unit of Measure | Target Low | Target High | Comment |
| 1 | 3.73 | Percent Opacity/hr | 0 | 0 | M26A |
| 2 | 3.27 | Percent Opacity/hr | 0 | 0 | M26A |
| 3 | 3.01 | Percent Opacity/hr | 0 | 0 | M26A |
| 4 | 3.33 | Percent Opacity/hr | 0 | 0 | M29 |
| 5 | 3.4 | Percent Opacity/hr | 0 | 0 | M29 |
| 6 | 3.67 | Percent Opacity/hr | 0 | 0 | M29 |
| 7 | 3.51 | Percent Opacity/hr | 0 | 0 | M29 |
| 8 | 2.77 | Percent Opacity/hr | 0 | 0 | M29 |
| 9 | 2.73 | Percent Opacity/hr | 0 | 0 | M29 |
| 10 | 2.94 | Percent Opacity/hr | 0 | 0 | M29 |

APCD Run Data

| APCD: ELECTROSTATIC PRECIPITATOR | | | | |
|----------------------------------|-------|-----------------|--------------|---------|
| Comment: | | | | |
| Run | Value | Unit of Measure | Target Value | Comment |
| 1 | 0 | | 0 | |
| 1 | 0 | | 0 | |

Process Lab Run Data

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Sampling / Stack Data Results Detail

| Location EUKILN1 North Stack - Method 10 | | | | |
|--|-------------------------|-------------------------|-------------------------|-------------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 2.0615 | 2.1646 | 2.0793 | 2.102 |
| Oxygen, % | 18.406 | 18.2043 | 19.1624 | 18.591 |
| Fuel Factor | 1.21 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 235443.1 | 245461.9 | 234640.8 | 238,515.267 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 9.474 | 9.8487 | 9.3675 | 9.563 |
| Analyzer Make | Thermo Environmental | Thermo Environmental | Thermo Environmental | |
| Analyzer Model | 48C | 48C | 48C | |
| Analyzer Serial Number | | | | |
| Operating Range | 92.9 | 92.9 | 92.9 | 92.900 |
| Operating Units | ppm | ppm | ppm | |
| No. Readings/Avg. | 160 | 161 | 168 | 163.000 |
| Calibration Set | 232 | 232 | 233 | 232.333 |
| Calibration Pre Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.5 | 0.5 | 0.6 | 0.533 |
| Calibration Pre Zero Cylinder Bias | 0.43 | 0.43 | 0.54 | 0.467 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Pre High Cylinder Instrument Response | 51.2 | 51.2 | 51.2 | 51.200 |
| Calibration Pre High Cylinder Bias | 0.11 | 0.11 | 0 | 0.073 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.5 | 0.5 | 0.6 | 0.533 |
| Calibration Post Zero Cylinder Bias | 0.43 | 0.43 | 0.54 | 0.467 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Post High Cylinder Instrument Response | 51.1 | 51.1 | 51.1 | 51.100 |
| Calibration Post High Cylinder Bias | 0 | 0 | -0.11 | -0.037 |
| Calibration Post High Cylinder Drift | 0.11 | 0.11 | 0.11 | 0.110 |
| Cavg | 12.5 | 13 | 12.2 | 12.567 |

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| | | | | |
|-------------|---------|---------|---------|--------|
| Cavg Units | ppmvd | ppmvd | ppmvd | |
| Cgas | 12.1066 | 12.6111 | 11.7262 | 12.148 |
| Cgas Units | ppmvd | ppmvd | ppmvd | |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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Location EUKILN1 North Stack - Method 10 3

| | | | | Average |
|--|-------------------------|-------------------------|-------------------------|-------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:35 AM | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 2.1833 | 2.1041 | 2.2067 | 2.165 |
| Oxygen, % | 19.0615 | 18.9421 | 18.9421 | 18.982 |
| Fuel Factor | 0 | 0 | 0.89 | |
| Dry Volumetric Flow Rate, dry scfm | 234455 | 224360.8 | 220785.6 | 226,533.800 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 11.0872 | 10.1428 | 9.7481 | 10.326 |
| Analyzer Make | Thermo Environmental | Thermo Environmental | Thermo Environmental | |
| Analyzer Model | 48C | 48C | 48C | |
| Analyzer Serial Number | | | | |
| Operating Range | 92.9 | 92.9 | 92.9 | 92.900 |
| Operating Units | ppm | ppm | ppm | |
| No. Readings/Avg. | 159 | 160 | 158 | 159.000 |
| Calibration Set | 233 | 234 | 234 | 233.667 |
| Calibration Pre Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.6 | 0.5 | 0.5 | 0.533 |
| Calibration Pre Zero Cylinder Bias | 0.54 | 0.43 | 0.43 | 0.467 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Pre High Cylinder Instrument Response | 51.2 | 51.1 | 51.1 | 51.133 |
| Calibration Pre High Cylinder Bias | 0 | -0.11 | -0.11 | -0.073 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.6 | 0.5 | 0.5 | 0.533 |
| Calibration Post Zero Cylinder Bias | 0.54 | 0.43 | 0.43 | 0.467 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Post High Cylinder Instrument Response | 51.1 | 50.9 | 50.9 | 50.967 |
| Calibration Post High Cylinder Bias | -0.11 | -0.32 | -0.32 | -0.250 |
| Calibration Post High Cylinder Drift | 0.11 | 0.21 | 0.21 | 0.177 |
| Cavg | 12.4 | 11 | 10.9 | 11.433 |
| Cavg Units | ppmvd | ppmvd | ppmvd | |
| Cgas | 0 | 10.6248 | 10.5236 | 7.049 |

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| Cgas Units | ppmvd | ppmvd | ppmvd | |
|-------------|-------|-------|-------|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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| Location EUKILN1 North Stack - Method 10 3 6 | | Average |
|--|-------------------------|-------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 2.258 | 2.258 |
| Oxygen, % | 18.9826 | 18.983 |
| Fuel Factor | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 217892.9 | 217,892.900 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 10.5397 | 10.540 |
| Analyzer Make | Thermo Environmental | |
| Analyzer Model | 48C | |
| Analyzer Serial Number | | |
| Operating Range | 92.9 | 92.900 |
| Operating Units | ppm | |
| No. Readings/Avg. | 158 | 158.000 |
| Calibration Set | 235 | 235.000 |
| Calibration Pre Zero Cylinder ID | EB0116426 - CO Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.5 | 0.500 |
| Calibration Pre Zero Cylinder Bias | 0.54 | 0.540 |
| Calibration Pre Zero Cylinder Drift | 0 | 0.000 |
| Calibration Pre High Cylinder ID | CC238767 - CO Mid | |
| Calibration Pre High Cylinder Instrument Response | 50.9 | 50.900 |
| Calibration Pre High Cylinder Bias | -0.32 | -0.320 |
| Calibration Pre High Cylinder Drift | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | EB0116426 - CO Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.5 | 0.500 |
| Calibration Post Zero Cylinder Bias | 0.54 | 0.540 |
| Calibration Post Zero Cylinder Drift | 0 | 0.000 |
| Calibration Post High Cylinder ID | CC238767 - CO Mid | |
| Calibration Post High Cylinder Instrument Response | 50.8 | 50.800 |
| Calibration Post High Cylinder Bias | -0.43 | -0.430 |
| Calibration Post High Cylinder Drift | 0.11 | 0.110 |
| Cavg | 11.1 | 11.100 |
| Cavg Units | ppmvd | |
| Cgas | 10.7579 | 10.758 |

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| | | |
|-------------|-------|-------|
| Cgas Units | ppmvd | |
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |
| Cgasw | 0 | 0.000 |
| Cgasw Units | | |

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Location EUKILN1 North Stack - Method 29

| | | | | Average |
|---|-------------|------------|-------------|----------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:00 PM | 3:46:00 PM | 10:21:00 AM | |
| Run Finish Time | 2:55:00 PM | 6:22:00 PM | 12:54:00 PM | |
| Net Traversing Points | 24 | 24 | 24 | |
| Net Run Time, minutes | 144 | 144 | 144 | |
| Nozzle Diameter, inches | 0.309 | 0.309 | 0.309 | 0.309 |
| Pitot Tube Coefficient | 0.81 | 0.82 | 0.81 | 0.813 |
| Dry Gas Meter Calibration Factor | 1.0069 | 1.0069 | 1.0069 | 1.007 |
| Barometric Pressure, inches of Mercury | 28.22 | 28.22 | 28.13 | 28.190 |
| Average Orifice Meter Differential, inches H2O | 2.96 | 3.26 | 2.96 | 3.060 |
| Dry Gas Meter Volume Sampled, cubic feet | 134.929 | 142.443 | 134.928 | 137.433 |
| Average Dry Gas Meter Temperature, °F | 88.23 | 90.75 | 87.67 | 88.883 |
| Dry Gas Meter Volume Sampled, dscf | 124.361 | 130.787 | 124.094 | 126.414 |
| Total Moisture Liquid collected, g | 276.0 | 303.0 | 272.0 | 283.667 |
| Volume of Water Vapor, standard cubic feet | 13.015 | 14.288 | 12.826 | 13.376 |
| Moisture Content of Stack Gas, % | 9.4740 | 9.8487 | 9.3675 | 9.563 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Dry Mole Fraction | 0.9053 | 0.9015 | 0.9063 | 0.904 |
| Carbon Dioxide, % | 2.0615 | 2.1646 | 2.0793 | 2.102 |
| Oxygen, % | 18.406 | 18.2043 | 19.1624 | 18.591 |
| Carbon Monoxide & Nitrogen, % | 79.5325 | 79.6311 | 78.7583 | 79.307 |
| Fuel Factor | 1.21 | 1.25 | 0.84 | |
| Dry Molecular Weight, lb/lb-Mole | 29.0661 | 29.0745 | 29.0992 | 29.080 |
| Wet Molecular weight, lb/lb-Mole | 28.0203 | 27.9849 | 28.0602 | 28.022 |
| Flue Gas Static Pressure, inches of H2O | -0.67 | -0.67 | -0.67 | -0.670 |
| Absolute Flue Gas Pressure, inches of Mercury | 28.17 | 28.17 | 28.08 | 28.140 |
| Average Stack Gas Temperature, °F | 310.04 | 313.29 | 320.79 | 314.707 |
| Square Root of Average Velocity, inches of H2O | 0.6947 | 0.7194 | 0.6979 | 0.704 |
| Average Stack Gas Velocity, feet/second | 47.50 | 49.94 | 48.10 | 48.513 |
| Stack Cross-Sectional Area, square feet | 141.38 | 141.38 | 141.38 | 141.380 |
| Dry Volumetric Flow Rate, dry scfm | 235,443.1 | 245,461.9 | 234,640.8 | 238,515.267 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 402,933.0 | 423,631.0 | 408,022.7 | 411,528.900 |
| Percent Isokinetic of Sampling Rate, % | 99.6 | 100.5 | 99.7 | 99.933 |
| Percent Excess Air, % | 710.5 | 645.9 | 1,175.8 | 844.067 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Round Duct Diameter, inches | 161 | 161 | 161 | |
| Rectangular Duct Width, inches | | | | |
| Rectangular Duct Length, inches | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| | | | | |
|----|---|---|---|-------|
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

Location EUKILN1 North Stack - Method 29 3

| | | | | Average |
|---|------------|-------------|------------|----------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:54:00 PM | 10:34:00 AM | 2:11:00 PM | |
| Run Finish Time | 4:30:00 PM | 1:08:00 PM | 4:43:00 PM | |
| Net Traversing Points | 24 | 24 | 24 | |
| Net Run Time, minutes | 144 | 144 | 144 | |
| Nozzle Diameter, inches | 0.309 | 0.309 | 0.309 | 0.309 |
| Pitot Tube Coefficient | 0.82 | 0.82 | 0.81 | 0.817 |
| Dry Gas Meter Calibration Factor | 1.0069 | 1.0069 | 1.0069 | 1.007 |
| Barometric Pressure, inches of Mercury | 28.13 | 28.03 | 28.03 | 28.063 |
| Average Orifice Meter Differential, inches H2O | 3.09 | 2.77 | 2.64 | 2.833 |
| Dry Gas Meter Volume Sampled, cubic feet | 137.500 | 130.288 | 127.954 | 131.914 |
| Average Dry Gas Meter Temperature, °F | 91.81 | 88.98 | 90.46 | 90.417 |
| Dry Gas Meter Volume Sampled, dscf | 125.552 | 119.059 | 116.572 | 120.394 |
| Total Moisture Liquid collected, g | 332.0 | 285.0 | 267.0 | 294.667 |
| Volume of Water Vapor, standard cubic feet | 15.656 | 13.439 | 12.591 | 13.895 |
| Moisture Content of Stack Gas, % | 11.0872 | 10.1428 | 9.7481 | 10.326 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Dry Mole Fraction | 0.8891 | 0.8986 | 0.9025 | 0.897 |
| Carbon Dioxide, % | 2.1833 | 2.1041 | 2.2067 | 2.165 |
| Oxygen, % | 19.0615 | 18.9421 | 18.9421 | 18.982 |
| Carbon Monoxide & Nitrogen, % | 78.7552 | 78.9538 | 78.8512 | 78.853 |
| Fuel Factor | 0.84 | 0.93 | 0.89 | |
| Dry Molecular Weight, lb/lb-Mole | 29.1118 | 29.0943 | 29.1108 | 29.106 |
| Wet Molecular weight, lb/lb-Mole | 27.8807 | 27.9714 | 28.0286 | 27.960 |
| Flue Gas Static Pressure, inches of H2O | -0.67 | -0.67 | -0.67 | -0.670 |
| Absolute Flue Gas Pressure, inches of Mercury | 28.08 | 27.98 | 27.98 | 28.013 |
| Average Stack Gas Temperature, °F | 319.17 | 307.00 | 303.29 | 309.820 |
| Square Root of Average Velocity, inches of H2O | 0.6993 | 0.6591 | 0.6529 | 0.670 |
| Average Stack Gas Velocity, feet/second | 48.89 | 45.73 | 44.59 | 46.403 |
| Stack Cross-Sectional Area, square feet | 141.38 | 141.38 | 141.38 | 141.380 |
| Dry Volumetric Flow Rate, dry scfm | 234,455.0 | 224,360.8 | 220,785.6 | 226,533.800 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 414,724.1 | 387,918.4 | 378,248.1 | 393,630.200 |
| Percent Isokinetic of Sampling Rate, % | 101.0 | 100.0 | 99.5 | 100.167 |
| Percent Excess Air, % | 1,101.9 | 996.1 | 1,010.5 | 1,036.167 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Round Duct Diameter, inches | 161 | 161 | 161 | |
| Rectangular Duct Width, inches | | | | |
| Rectangular Duct Length, inches | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| | | | | |
|----|---|---|---|-------|
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

Location EUKILN1 North Stack - Method 29 3 6

| | | Average |
|---|-------------|-------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:30:00 AM | |
| Run Finish Time | 12:02:00 PM | |
| Net Traversing Points | 24 | |
| Net Run Time, minutes | 144 | |
| Nozzle Diameter, inches | 0.309 | 0.309 |
| Pitot Tube Coefficient | 0.81 | 0.810 |
| Dry Gas Meter Calibration Factor | 1.0069 | 1.007 |
| Barometric Pressure, inches of Mercury | 28.26 | 28.260 |
| Average Orifice Meter Differential, inches H2O | 2.61 | 2.610 |
| Dry Gas Meter Volume Sampled, cubic feet | 126.031 | 126.031 |
| Average Dry Gas Meter Temperature, °F | 87.04 | 87.040 |
| Dry Gas Meter Volume Sampled, dscf | 116.471 | 116.471 |
| Total Moisture Liquid collected, g | 291.0 | 291.000 |
| Volume of Water Vapor, standard cubic feet | 13.722 | 13.722 |
| Moisture Content of Stack Gas, % | 10.5397 | 10.540 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.000 |
| Dry Mole Fraction | 0.8946 | 0.895 |
| Carbon Dioxide, % | 2.258 | 2.258 |
| Oxygen, % | 18.9826 | 18.983 |
| Carbon Monoxide & Nitrogen, % | 78.7594 | 78.759 |
| Fuel Factor | 0.85 | |
| Dry Molecular Weight, lb/lb-Mole | 29.1206 | 29.121 |
| Wet Molecular weight, lb/lb-Mole | 27.9500 | 27.950 |
| Flue Gas Static Pressure, inches of H2O | -0.67 | -0.670 |
| Absolute Flue Gas Pressure, inches of Mercury | 28.21 | 28.210 |
| Average Stack Gas Temperature, °F | 305.50 | 305.500 |
| Square Root of Average Velocity, inches of H2O | 0.6473 | 0.647 |
| Average Stack Gas Velocity, feet/second | 44.16 | 44.160 |
| Stack Cross-Sectional Area, square feet | 141.38 | 141.380 |
| Dry Volumetric Flow Rate, dry scfm | 217,892.9 | 217,892.900 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 374,600.4 | 374,600.400 |
| Percent Isokinetic of Sampling Rate, % | 100.8 | 100.800 |
| Percent Excess Air, % | 1,048.8 | 1,048.800 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Round Duct Diameter, inches | 161 | |
| Rectangular Duct Width, inches | | |
| Rectangular Duct Length, inches | | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| | | |
|----|---|-------|
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| Location EUKILN1 North Stack - Method 3A CO2 | | | | |
|--|------------------------|------------------------|------------------------|-------------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 2.0615 | 2.1646 | 2.2161 | 2.147 |
| Oxygen, % | 18.406 | 18.2043 | 19.1624 | 18.591 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 235443.1 | 245461.9 | 234640.8 | 238,515.267 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 9.474 | 9.8487 | 9.3675 | 9.563 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1415B | 1415B | 1415B | |
| Operating Range | 21.1 | 21.1 | 21.1 | 21.100 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 160 | 161 | 168 | 163.000 |
| Calibration Set | 222 | 222 | 223 | 222.333 |
| Calibration Pre Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.1 | 0.1 | 0 | 0.067 |
| Calibration Pre Zero Cylinder Bias | 0 | 0 | -0.47 | -0.157 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Pre High Cylinder Instrument Response | 11.8 | 11.8 | 11.9 | 11.833 |
| Calibration Pre High Cylinder Bias | -0.95 | -0.95 | 0 | -0.633 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.1 | 0.1 | 0.01 | 0.070 |
| Calibration Post Zero Cylinder Bias | 0 | 0 | -0.43 | -0.143 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0.04 | 0.013 |
| Calibration Post High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Post High Cylinder Instrument Response | 11.8 | 11.8 | 12 | 11.867 |
| Calibration Post High Cylinder Bias | -0.95 | -0.95 | 0.47 | -0.477 |
| Calibration Post High Cylinder Drift | 0 | 0 | 0.47 | 0.157 |
| Cavg | 2.1 | 2.2 | 2.2 | 2.167 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 2.0615 | 2.1646 | 2.2161 | 2.147 |
| Cgas Units | %vd | %vd | %vd | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

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Location EUKILN1 North Stack - Method 3A CO2 3

| | | | | Average |
|--|------------------------|------------------------|------------------------|-------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 AM | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 2.2803 | 2.1041 | 2.2067 | 2.197 |
| Oxygen, % | 19.0615 | 18.9421 | 18.9421 | 18.982 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 234455 | 224360.8 | 220785.6 | 226,533.800 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 11.0872 | 10.1428 | 9.7481 | 10.326 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1415B | 1415B | 1415B | |
| Operating Range | 21.1 | 21.1 | 21.1 | 21.100 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 159 | 160 | 158 | 159.000 |
| Calibration Set | 223 | 224 | 224 | 223.667 |
| Calibration Pre Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0 | 0.1 | 0.1 | 0.067 |
| Calibration Pre Zero Cylinder Bias | -0.47 | 0.47 | 0.47 | 0.157 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Pre High Cylinder Instrument Response | 11.9 | 11.8 | 11.8 | 11.833 |
| Calibration Pre High Cylinder Bias | 0 | -0.47 | -0.47 | -0.313 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.1 | 0 | 0 | 0.033 |
| Calibration Post Zero Cylinder Bias | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder Drift | 0.47 | 0.47 | 0.47 | 0.470 |
| Calibration Post High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Post High Cylinder Instrument Response | 12 | 11.8 | 11.8 | 11.867 |
| Calibration Post High Cylinder Bias | 0.47 | -0.47 | -0.47 | -0.157 |
| Calibration Post High Cylinder Drift | 0.47 | 0 | 0 | 0.157 |
| Cavg | 2.3 | 2.1 | 2.2 | 2.200 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 2.2803 | 2.1041 | 2.2067 | 2.197 |
| Cgas Units | %vd | %vd | %vd | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| Location EUKILN1 North Stack - Method 3A CO2 3 6 | | Average |
|--|------------------------|-------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 2.258 | 2.258 |
| Oxygen, % | 18.9826 | 18.983 |
| Fuel Factor | 0.85 | |
| Dry Volumetric Flow Rate, dry scfm | 217892.9 | 217,892.900 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 10.5397 | 10.540 |
| Analyzer Make | Servomex | |
| Analyzer Model | 1440 | 1,440.000 |
| Analyzer Serial Number | 1415B | |
| Operating Range | 21.1 | 21.100 |
| Operating Units | % | |
| No. Readings/Avg. | 158 | 158.000 |
| Calibration Set | 225 | 225.000 |
| Calibration Pre Zero Cylinder ID | CC238767 - CO2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.1 | 0.100 |
| Calibration Pre Zero Cylinder Bias | 0 | 0.000 |
| Calibration Pre Zero Cylinder Drift | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - CO2 Mid | |
| Calibration Pre High Cylinder Instrument Response | 11.8 | 11.800 |
| Calibration Pre High Cylinder Bias | -0.95 | -0.950 |
| Calibration Pre High Cylinder Drift | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - CO2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.1 | 0.100 |
| Calibration Post Zero Cylinder Bias | 0 | 0.000 |
| Calibration Post Zero Cylinder Drift | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - CO2 Mid | |
| Calibration Post High Cylinder Instrument Response | 11.9 | 11.900 |
| Calibration Post High Cylinder Bias | -0.47 | -0.470 |
| Calibration Post High Cylinder Drift | 0.48 | 0.480 |
| Cavg | 2.3 | 2.300 |
| Cavg Units | %vd | |
| Cgas | 2.258 | 2.258 |
| Cgas Units | %vd | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| | | |
|-------------|---|-------|
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |
| Cgasw | 0 | 0.000 |
| Cgasw Units | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| Location EUKILN1 North Stack - Method 3A O2 | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 18.406 | 18.2043 | 19.1624 | 18.591 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1420B NNN | 1420B NNN | 1420B NNN | |
| Operating Range | 20.85 | 20.85 | 20.85 | 20.850 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 160 | 161 | 168 | 163.000 |
| Calibration Set | 212 | 212 | 213 | 212.333 |
| Calibration Pre Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.1 | 0.1 | 0 | 0.067 |
| Calibration Pre Zero Cylinder Bias | 0.48 | 0.48 | 0 | 0.320 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Pre High Cylinder Instrument Response | 5.9 | 5.9 | 5.9 | 5.900 |
| Calibration Pre High Cylinder Bias | 0 | 0 | -0.96 | -0.320 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.2 | 0.2 | 0 | 0.133 |
| Calibration Post Zero Cylinder Bias | 0.96 | 0.96 | 0 | 0.640 |
| Calibration Post Zero Cylinder Drift | 0.48 | 0.48 | 0 | 0.320 |
| Calibration Post High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Post High Cylinder Instrument Response | 6.1 | 6.1 | 5.8 | 6.000 |
| Calibration Post High Cylinder Bias | 0.96 | 0.96 | -1.44 | 0.160 |
| Calibration Post High Cylinder Drift | 0.96 | 0.96 | 0.48 | 0.800 |
| Cavg | 18.4 | 18.2 | 19 | 18.533 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 18.406 | 18.2043 | 19.1624 | 18.591 |
| Cgas Units | %vd | %vd | %vd | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| Location EUKILN1 North Stack - Method 3A O2 3 | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------|
| | | | | Average |
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 AM | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 19.0615 | 18.9421 | 18.9421 | 18.982 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1420B NNN | 1420B NNN | 1420B NNN | |
| Operating Range | 20.85 | 20.85 | 20.85 | 20.850 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 159 | 160 | 158 | 159.000 |
| Calibration Set | 213 | 214 | 214 | 213.667 |
| Calibration Pre Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0 | 0.2 | 0.2 | 0.133 |
| Calibration Pre Zero Cylinder Bias | 0 | 0.48 | 0.48 | 0.320 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Pre High Cylinder Instrument Response | 5.9 | 5.9 | 5.9 | 5.900 |
| Calibration Pre High Cylinder Bias | -0.96 | -0.48 | -0.48 | -0.640 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0 | 0.2 | 0.2 | 0.133 |
| Calibration Post Zero Cylinder Bias | 0 | 0.48 | 0.48 | 0.320 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Post High Cylinder Instrument Response | 5.8 | 5.9 | 5.9 | 5.867 |
| Calibration Post High Cylinder Bias | -1.44 | -0.48 | -0.48 | -0.800 |
| Calibration Post High Cylinder Drift | 0.48 | 0 | 0 | 0.160 |
| Cavg | 18.9 | 18.5 | 18.5 | 18.633 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 19.0615 | 18.9421 | 18.9421 | 18.982 |
| Cgas Units | %vd | %vd | %vd | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| Location EUKILN1 North Stack - Method 3A O2 3 6 | | Average |
|--|-----------------------|-----------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 0 | 0.000 |
| Oxygen, % | 18.9826 | 18.983 |
| Fuel Factor | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 0 | 0.000 |
| Analyzer Make | Servomex | |
| Analyzer Model | 1440 | 1,440.000 |
| Analyzer Serial Number | 1420B NNN | |
| Operating Range | 20.85 | 20.850 |
| Operating Units | % | |
| No. Readings/Avg. | 158 | 158.000 |
| Calibration Set | 215 | 215.000 |
| Calibration Pre Zero Cylinder ID | CC238767 - O2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.2 | 0.200 |
| Calibration Pre Zero Cylinder Bias | 0.48 | 0.480 |
| Calibration Pre Zero Cylinder Drift | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - O2 Low | |
| Calibration Pre High Cylinder Instrument Response | 5.9 | 5.900 |
| Calibration Pre High Cylinder Bias | -0.48 | -0.480 |
| Calibration Pre High Cylinder Drift | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - O2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.2 | 0.200 |
| Calibration Post Zero Cylinder Bias | 0.48 | 0.480 |
| Calibration Post Zero Cylinder Drift | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - O2 Low | |
| Calibration Post High Cylinder Instrument Response | 6 | 6.000 |
| Calibration Post High Cylinder Bias | 0 | 0.000 |
| Calibration Post High Cylinder Drift | 0.48 | 0.480 |
| Cavg | 18.7 | 18.700 |
| Cavg Units | %vd | |
| Cgas | 18.9826 | 18.983 |
| Cgas Units | %vd | |

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| | | |
|-------------|---|-------|
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |
| Cgasw | 0 | 0.000 |
| Cgasw Units | | |

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Location EUKILN1 North Stack HCL HF Test - Method 10

| | | | | Average |
|--|-------------------------|-------------------------|-------------------------|-------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 2.1833 | 2.1833 | 2.1833 | 2.183 |
| Oxygen, % | 18.9207 | 18.9207 | 18.9207 | 18.921 |
| Fuel Factor | 0.91 | 0.91 | 0.91 | |
| Dry Volumetric Flow Rate, dry scfm | 249651.8 | 248688.8 | 244679.3 | 247,673.300 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 9.7239 | 10.2461 | 10.3783 | 10.116 |
| Analyzer Make | Thermo Environmental | Thermo Environmental | Thermo Environmental | |
| Analyzer Model | 48C | 48C | 48C | |
| Analyzer Serial Number | | | | |
| Operating Range | 92.9 | 92.9 | 92.9 | 92.900 |
| Operating Units | ppm | ppm | ppm | |
| No. Readings/Avg. | 110 | 114 | 114 | 112.667 |
| Calibration Set | 231 | 231 | 231 | 231.000 |
| Calibration Pre Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.6 | 0.6 | 0.6 | 0.600 |
| Calibration Pre Zero Cylinder Bias | 0.65 | 0.65 | 0.65 | 0.650 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Pre High Cylinder Instrument Response | 51.4 | 51.4 | 51.4 | 51.400 |
| Calibration Pre High Cylinder Bias | 0.11 | 0.11 | 0.11 | 0.110 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.6 | 0.6 | 0.6 | 0.600 |
| Calibration Post Zero Cylinder Bias | 0.65 | 0.65 | 0.65 | 0.650 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Post High Cylinder Instrument Response | 51.2 | 51.2 | 51.2 | 51.200 |
| Calibration Post High Cylinder Bias | -0.11 | -0.11 | -0.11 | -0.110 |
| Calibration Post High Cylinder Drift | 0.22 | 0.22 | 0.22 | 0.220 |
| Cavg | 11.9 | 11.4 | 11.4 | 11.567 |
| Cavg Units | ppmvd | ppmvd | ppmvd | |
| Cgas | 11.3892 | 10.8852 | 10.8852 | 11.053 |

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| Cgas Units | ppmvd | ppmvd | ppmvd | |
|-------------|-------|-------|-------|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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Location EUKILN1 North Stack HCL HF Test - Method 26A

| | | | | Average |
|---|-------------|-------------|------------|----------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:31:00 AM | 12:55:00 PM | 3:08:00 PM | |
| Run Finish Time | 12:16:00 PM | 2:45:00 PM | 4:51:00 PM | |
| Net Traversing Points | 24 | 24 | 24 | |
| Net Run Time, minutes | 96 | 96 | 96 | |
| Nozzle Diameter, inches | 0.309 | 0.309 | 0.309 | 0.309 |
| Pitot Tube Coefficient | 0.83 | 0.83 | 0.83 | 0.830 |
| Dry Gas Meter Calibration Factor | 1.0069 | 1.0069 | 1.0069 | 1.007 |
| Barometric Pressure, inches of Mercury | 28.32 | 28.32 | 28.32 | 28.320 |
| Average Orifice Meter Differential, inches H2O | 3.33 | 3.34 | 3.25 | 3.307 |
| Dry Gas Meter Volume Sampled, cubic feet | 94.278 | 94.943 | 93.812 | 94.344 |
| Average Dry Gas Meter Temperature, °F | 83.81 | 87.71 | 88.85 | 86.790 |
| Dry Gas Meter Volume Sampled, dscf | 87.993 | 87.984 | 86.735 | 87.571 |
| Total Moisture Liquid collected, g | 201.0 | 213.0 | 213.0 | 209.000 |
| Volume of Water Vapor, standard cubic feet | 9.478 | 10.044 | 10.044 | 9.855 |
| Moisture Content of Stack Gas, % | 9.7239 | 10.2461 | 10.3783 | 10.116 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Dry Mole Fraction | 0.9028 | 0.8975 | 0.8962 | 0.899 |
| Carbon Dioxide, % | 2.1833 | 2.1833 | 2.1833 | 2.183 |
| Oxygen, % | 18.9207 | 18.9207 | 18.9207 | 18.921 |
| Carbon Monoxide & Nitrogen, % | 78.896 | 78.896 | 78.896 | 78.896 |
| Fuel Factor | 0.91 | 0.91 | 0.91 | |
| Dry Molecular Weight, lb/lb-Mole | 29.1062 | 29.1062 | 29.1062 | 29.106 |
| Wet Molecular weight, lb/lb-Mole | 28.0288 | 27.9686 | 27.9546 | 27.984 |
| Flue Gas Static Pressure, inches of H2O | -0.67 | -0.67 | -0.67 | -0.670 |
| Absolute Flue Gas Pressure, inches of Mercury | 28.27 | 28.27 | 28.27 | 28.270 |
| Average Stack Gas Temperature, °F | 310.08 | 306.54 | 305.42 | 307.347 |
| Square Root of Average Velocity, inches of H2O | 0.7196 | 0.7186 | 0.7074 | 0.715 |
| Average Stack Gas Velocity, feet/second | 50.33 | 50.20 | 49.39 | 49.973 |
| Stack Cross-Sectional Area, square feet | 141.38 | 141.38 | 141.38 | 141.380 |
| Dry Volumetric Flow Rate, dry scfm | 249,651.8 | 248,688.8 | 244,679.3 | 247,673.300 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 426,939.3 | 425,836.6 | 418,965.5 | 423,913.800 |
| Percent Isokinetic of Sampling Rate, % | 99.7 | 100.1 | 100.2 | 100.000 |
| Percent Excess Air, % | 991.7 | 991.7 | 991.7 | 991.700 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Round Duct Diameter, inches | 161 | 161 | 161 | |
| Rectangular Duct Width, inches | | | | |
| Rectangular Duct Length, inches | | | | |

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| | | | | |
|----|---|---|---|-------|
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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| Location EUKILN1 North Stack HCL HF Test - Method 3A CO2 | | | | |
|--|------------------------|------------------------|------------------------|-------------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 2.1833 | 2.1833 | 2.1833 | 2.183 |
| Oxygen, % | 18.9207 | 18.9207 | 18.9207 | 18.921 |
| Fuel Factor | 0 | 0.91 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 249651.8 | 248688.8 | 244679.3 | 247,673.300 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 9.7239 | 10.2461 | 10.3783 | 10.116 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1415B NNN | 1415B NNN | 1415B NNN | |
| Operating Range | 21.1 | 21.1 | 21.1 | 21.100 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 110 | 114 | 110 | 111.333 |
| Calibration Set | 221 | 221 | 221 | 221.000 |
| Calibration Pre Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.1 | 0.1 | 0.1 | 0.100 |
| Calibration Pre Zero Cylinder Bias | 0 | 0 | 0 | 0.000 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Pre High Cylinder Instrument Response | 11.7 | 11.7 | 11.7 | 11.700 |
| Calibration Pre High Cylinder Bias | -0.47 | -0.47 | -0.47 | -0.470 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.1 | 0.1 | 0.1 | 0.100 |
| Calibration Post Zero Cylinder Bias | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Post High Cylinder Instrument Response | 11.7 | 11.7 | 11.7 | 11.700 |
| Calibration Post High Cylinder Bias | -0.47 | -0.47 | -0.47 | -0.470 |
| Calibration Post High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Cavg | 2.2 | 2.2 | 2.2 | 2.200 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 2.1833 | 2.1833 | 2.1833 | 2.183 |
| Cgas Units | %vd | %vd | %vd | |

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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| Location EUKILN1 North Stack HCL HF Test - Method 3A O2 | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 18.9207 | 18.9207 | 18.9207 | 18.921 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1420B NNN | 1420B NNN | 1420B NNN | |
| Operating Range | 20.85 | 20.85 | 20.85 | 20.850 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 110 | 114 | 110 | 111.333 |
| Calibration Set | 211 | 211 | 211 | 211.000 |
| Calibration Pre Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.1 | 0.1 | 0.1 | 0.100 |
| Calibration Pre Zero Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Pre High Cylinder Instrument Response | 5.9 | 5.9 | 5.9 | 5.900 |
| Calibration Pre High Cylinder Bias | -0.48 | -0.48 | -0.48 | -0.480 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.1 | 0.1 | 0.1 | 0.100 |
| Calibration Post Zero Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Post High Cylinder Instrument Response | 5.9 | 5.9 | 5.9 | 5.900 |
| Calibration Post High Cylinder Bias | -0.48 | -0.48 | -0.48 | -0.480 |
| Calibration Post High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Cavg | 18.7 | 18.7 | 18.7 | 18.700 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 18.9207 | 18.9207 | 18.9207 | 18.921 |
| Cgas Units | %vd | %vd | %vd | |

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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| Location EUKILN1 South Stack - Method 10 | | | | |
|--|-------------------------|-------------------------|-------------------------|----------------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 3.4309 | 3.6388 | 3.6388 | 3.570 |
| Oxygen, % | 16.8571 | 16.5597 | 16.9 | 16.772 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 481509.2 | 474340 | 449721.1 | 468,523.433 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 12.0244 | 12.8115 | 13.4638 | 12.767 |
| Analyzer Make | Thermo Environmental | Thermo Environmental | Thermo Environmental | |
| Analyzer Model | 48 | 48 | 48 | 48.000 |
| Analyzer Serial Number | | | | |
| Operating Range | 92.9 | 92.9 | 92.9 | 92.900 |
| Operating Units | ppm | ppm | ppm | |
| No. Readings/Avg. | 160 | 161 | 168 | 163.000 |
| Calibration Set | 132 | 132 | 133 | 132.333 |
| Calibration Pre Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 3.8 | 3.8 | 3.4 | 3.667 |
| Calibration Pre Zero Cylinder Bias | 3.66 | 3.66 | 3.34 | 3.553 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Pre High Cylinder Instrument Response | 53.8 | 53.8 | 53.4 | 53.667 |
| Calibration Pre High Cylinder Bias | 3.23 | 3.23 | 3.34 | 3.267 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Post Zero Cylinder Instrument Response | 3.6 | 3.6 | 3.2 | 3.467 |
| Calibration Post Zero Cylinder Bias | 3.44 | 3.44 | 3.12 | 3.333 |
| Calibration Post Zero Cylinder Drift | 0.22 | 0.22 | 0.22 | 0.220 |
| Calibration Post High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Post High Cylinder Instrument Response | 53.4 | 53.4 | 53.1 | 53.300 |
| Calibration Post High Cylinder Bias | 2.8 | 2.8 | 3.01 | 2.870 |
| Calibration Post High Cylinder Drift | 0.43 | 0.43 | 0.33 | 0.397 |
| Cavg | 15.5 | 15.9 | 15 | 15.467 |
| Cavg Units | ppmvd | ppmvd | ppmvd | |
| Cgas | 12.0838 | 12.4934 | 11.9694 | 12.182 |

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| Cgas Units | ppmvd | ppmvd | ppmvd | |
|-------------|-------|-------|-------|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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| Location EUKILN1 South Stack - Method 10 3 | | | | |
|--|-------------------------|---------------------------|---------------------------|-------------|
| | | | | Average |
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 AM | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 3.7428 | 3.7428 | 3.7428 | 3.743 |
| Oxygen, % | 16.7 | 16.8862 | 16.9879 | 16.858 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 445230.9 | 458202.5 | 461155.1 | 454,862.833 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 14.528 | 13.7447 | 13.4049 | 13.893 |
| Analyzer Make | Thermo Environmental | Thermo Environmental | Thermo Environmental | |
| Analyzer Model | 48 | 48 | 48 | 48.000 |
| Analyzer Serial Number | | | | |
| Operating Range | 92.9 | 92.9 | 92.9 | 92.900 |
| Operating Units | ppm | ppm | ppm | |
| No. Readings/Avg. | 159 | 160 | 158 | 159.000 |
| Calibration Set | 133 | 134 | 134 | 133.667 |
| Calibration Pre Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 3.4 | 3 | 3 | 3.133 |
| Calibration Pre Zero Cylinder Bias | 3.34 | 2.91 | 2.91 | 3.053 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Pre High Cylinder Instrument Response | 53.4 | 53 | 53 | 53.133 |
| Calibration Pre High Cylinder Bias | 3.34 | 2.91 | 2.91 | 3.053 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Post Zero Cylinder Instrument Response | 3.2 | 3.1 | 3.1 | 3.133 |
| Calibration Post Zero Cylinder Bias | 3.12 | 3.01 | 3.01 | 3.047 |
| Calibration Post Zero Cylinder Drift | 0.22 | 9.999999999999996 E-02 | 9.999999999999996 E-02 | 0.140 |
| Calibration Post High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Post High Cylinder Instrument Response | 53.1 | 53.1 | 53.1 | 53.100 |
| Calibration Post High Cylinder Bias | 3.01 | 3.01 | 3.01 | 3.010 |
| Calibration Post High Cylinder Drift | 0.33 | 9.999999999999996 E-02 | 9.999999999999996 E-02 | 0.177 |
| Cavg | 15.2 | 14.3 | 14.6 | 14.700 |
| Cavg Units | ppmvd | ppmvd | ppmvd | |

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| | | | | |
|-------------|--------|---------|-------|-------|
| Cgas | 12.174 | 11.4975 | 0 | 7.891 |
| Cgas Units | ppmvd | ppmvd | ppmvd | |
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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| Location EUKILN1 South Stack - Method 10 3 6 | | Average |
|--|---------------------------|-------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 3.8467 | 3.847 |
| Oxygen, % | 17.1914 | 17.191 |
| Fuel Factor | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 455383.7 | 455,383.700 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 10.5733 | 10.573 |
| Analyzer Make | Thermo Environmental | |
| Analyzer Model | 48 | 48.000 |
| Analyzer Serial Number | | |
| Operating Range | 92.9 | 92.900 |
| Operating Units | ppm | |
| No. Readings/Avg. | 158 | 158.000 |
| Calibration Set | 135 | 135.000 |
| Calibration Pre Zero Cylinder ID | EB0116426 - CO Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 3 | 3.000 |
| Calibration Pre Zero Cylinder Bias | 2.91 | 2.910 |
| Calibration Pre Zero Cylinder Drift | 0 | 0.000 |
| Calibration Pre High Cylinder ID | CC238767 - CO Mid | |
| Calibration Pre High Cylinder Instrument Response | 53.1 | 53.100 |
| Calibration Pre High Cylinder Bias | 3.01 | 3.010 |
| Calibration Pre High Cylinder Drift | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | EB0116426 - CO Zero | |
| Calibration Post Zero Cylinder Instrument Response | 3.1 | 3.100 |
| Calibration Post Zero Cylinder Bias | 3.01 | 3.010 |
| Calibration Post Zero Cylinder Drift | 9.999999999999996 E-02 | 0.100 |
| Calibration Post High Cylinder ID | CC238767 - CO Mid | |
| Calibration Post High Cylinder Instrument Response | 53 | 53.000 |
| Calibration Post High Cylinder Bias | 2.91 | 2.910 |
| Calibration Post High Cylinder Drift | 9.999999999999996 E-02 | 0.100 |
| Cavg | 14.1 | 14.100 |
| Cavg Units | ppmvd | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| | | |
|-------------|---------|--------|
| Cgas | 11.2931 | 11.293 |
| Cgas Units | ppmvd | |
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |
| Cgasw | 0 | 0.000 |
| Cgasw Units | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

Location EUKILN1 South Stack - Method 29

| | | | | Average |
|---|-------------|------------|-------------|----------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:00 PM | 3:46:00 PM | 10:21:00 AM | |
| Run Finish Time | 2:50:00 PM | 6:15:00 PM | 1:03:00 PM | |
| Net Traversing Points | 24 | 24 | 24 | |
| Net Run Time, minutes | 144 | 144 | 144 | |
| Nozzle Diameter, inches | 0.313 | 0.313 | 0.313 | 0.313 |
| Pitot Tube Coefficient | 0.84 | 0.84 | 0.83 | 0.837 |
| Dry Gas Meter Calibration Factor | 0.9845 | 0.9845 | 0.9845 | 0.985 |
| Barometric Pressure, inches of Mercury | 28.22 | 28.22 | 28.13 | 28.190 |
| Average Orifice Meter Differential, inches H2O | 3.05 | 2.95 | 2.75 | 2.917 |
| Dry Gas Meter Volume Sampled, cubic feet | 140.719 | 137.353 | 134.856 | 137.643 |
| Average Dry Gas Meter Temperature, °F | 87.71 | 82.17 | 93.04 | 87.640 |
| Dry Gas Meter Volume Sampled, dscf | 126.962 | 125.160 | 120.024 | 124.049 |
| Total Moisture Liquid collected, g | 368.0 | 390.0 | 396.0 | 384.667 |
| Volume of Water Vapor, standard cubic feet | 17.353 | 18.391 | 18.674 | 18.139 |
| Moisture Content of Stack Gas, % | 12.0244 | 12.8115 | 13.4638 | 12.767 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Dry Mole Fraction | 0.8798 | 0.8719 | 0.8654 | 0.872 |
| Carbon Dioxide, % | 3.4309 | 3.6388 | 3.6388 | 3.570 |
| Oxygen, % | 16.8571 | 16.5597 | 16.9 | 16.772 |
| Carbon Monoxide & Nitrogen, % | 79.712 | 79.8015 | 79.4612 | 79.658 |
| Fuel Factor | 1.18 | 1.19 | 1.10 | |
| Dry Molecular Weight, lb/lb-Mole | 29.2232 | 29.2446 | 29.2582 | 29.242 |
| Wet Molecular weight, lb/lb-Mole | 27.8768 | 27.8064 | 27.7455 | 27.810 |
| Flue Gas Static Pressure, inches of H2O | -0.71 | -0.71 | -0.71 | -0.710 |
| Absolute Flue Gas Pressure, inches of Mercury | 28.17 | 28.17 | 28.08 | 28.140 |
| Average Stack Gas Temperature, °F | 273.63 | 277.38 | 284.58 | 278.530 |
| Square Root of Average Velocity, inches of H2O | 0.6553 | 0.6522 | 0.6339 | 0.647 |
| Average Stack Gas Velocity, feet/second | 45.47 | 45.43 | 43.96 | 44.953 |
| Stack Cross-Sectional Area, square feet | 296.10 | 296.10 | 296.10 | 296.100 |
| Dry Volumetric Flow Rate, dry scfm | 481,509.2 | 474,340.0 | 449,721.1 | 468,523.433 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 807,820.0 | 807,109.4 | 780,993.4 | 798,640.933 |
| Percent Isokinetic of Sampling Rate, % | 101.5 | 101.5 | 102.7 | 101.900 |
| Percent Excess Air, % | 402.6 | 367.3 | 414.4 | 394.767 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Round Duct Diameter, inches | 233 | 233 | 233 | |
| Rectangular Duct Width, inches | | | | |
| Rectangular Duct Length, inches | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| | | | | |
|----|---|---|---|-------|
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

Location EUKILN1 South Stack - Method 29 3

| | | | | Average |
|---|------------|-------------|------------|----------------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:54:00 PM | 10:34:00 AM | 2:11:00 PM | |
| Run Finish Time | 4:24:00 PM | 1:06:00 PM | 4:41:00 PM | |
| Net Traversing Points | 24 | 24 | 24 | |
| Net Run Time, minutes | 144 | 144 | 144 | |
| Nozzle Diameter, inches | 0.313 | 0.313 | 0.313 | 0.313 |
| Pitot Tube Coefficient | 0.84 | 0.83 | 0.83 | 0.833 |
| Dry Gas Meter Calibration Factor | 0.9845 | 0.9845 | 0.9845 | 0.985 |
| Barometric Pressure, inches of Mercury | 28.13 | 28.03 | 28.03 | 28.063 |
| Average Orifice Meter Differential, inches H2O | 2.79 | 2.90 | 2.92 | 2.870 |
| Dry Gas Meter Volume Sampled, cubic feet | 134.873 | 136.929 | 137.236 | 136.346 |
| Average Dry Gas Meter Temperature, °F | 92.71 | 88.42 | 88.54 | 89.890 |
| Dry Gas Meter Volume Sampled, dscf | 120.124 | 122.511 | 122.765 | 121.800 |
| Total Moisture Liquid collected, g | 433.0 | 414.0 | 403.0 | 416.667 |
| Volume of Water Vapor, standard cubic feet | 20.418 | 19.522 | 19.004 | 19.648 |
| Moisture Content of Stack Gas, % | 14.5280 | 13.7447 | 13.4049 | 13.893 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Dry Mole Fraction | 0.8547 | 0.8626 | 0.8660 | 0.861 |
| Carbon Dioxide, % | 3.7428 | 3.7428 | 3.7428 | 3.743 |
| Oxygen, % | 16.7 | 16.8862 | 16.9879 | 16.858 |
| Carbon Monoxide & Nitrogen, % | 79.5572 | 79.371 | 79.2693 | 79.399 |
| Fuel Factor | 1.12 | 1.07 | 1.05 | |
| Dry Molecular Weight, lb/lb-Mole | 29.2668 | 29.2743 | 29.2784 | 29.273 |
| Wet Molecular weight, lb/lb-Mole | 27.6316 | 27.7281 | 27.7700 | 27.710 |
| Flue Gas Static Pressure, inches of H2O | -0.71 | -0.71 | -0.71 | -0.710 |
| Absolute Flue Gas Pressure, inches of Mercury | 28.08 | 27.98 | 27.98 | 28.013 |
| Average Stack Gas Temperature, °F | 282.96 | 276.08 | 274.58 | 277.873 |
| Square Root of Average Velocity, inches of H2O | 0.6259 | 0.6451 | 0.6465 | 0.639 |
| Average Stack Gas Velocity, feet/second | 43.97 | 44.58 | 44.60 | 44.383 |
| Stack Cross-Sectional Area, square feet | 296.10 | 296.10 | 296.10 | 296.100 |
| Dry Volumetric Flow Rate, dry scfm | 445,230.9 | 458,202.5 | 461,155.1 | 454,862.833 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 781,171.0 | 792,008.3 | 792,363.6 | 788,514.300 |
| Percent Isokinetic of Sampling Rate, % | 103.8 | 102.9 | 102.4 | 103.033 |
| Percent Excess Air, % | 388.1 | 415.1 | 431.3 | 411.500 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Round Duct Diameter, inches | 233 | 233 | 233 | |
| Rectangular Duct Width, inches | | | | |
| Rectangular Duct Length, inches | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| | | | | |
|----|---|---|---|-------|
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

Location EUKILN1 South Stack - Method 29 3 6

Average

| | | |
|---|-------------|-------------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:30:00 AM | |
| Run Finish Time | 11:59:00 AM | |
| Net Traversing Points | 24 | |
| Net Run Time, minutes | 144 | |
| Nozzle Diameter, inches | 0.313 | 0.313 |
| Pitot Tube Coefficient | 0.83 | 0.830 |
| Dry Gas Meter Calibration Factor | 0.9845 | 0.985 |
| Barometric Pressure, inches of Mercury | 28.26 | 28.260 |
| Average Orifice Meter Differential, inches H2O | 2.70 | 2.700 |
| Dry Gas Meter Volume Sampled, cubic feet | 132.772 | 132.772 |
| Average Dry Gas Meter Temperature, °F | 92.33 | 92.330 |
| Dry Gas Meter Volume Sampled, dscf | 118.849 | 118.849 |
| Total Moisture Liquid collected, g | 298.0 | 298.000 |
| Volume of Water Vapor, standard cubic feet | 14.052 | 14.052 |
| Moisture Content of Stack Gas, % | 10.5733 | 10.573 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.000 |
| Dry Mole Fraction | 0.8943 | 0.894 |
| Carbon Dioxide, % | 3.8467 | 3.847 |
| Oxygen, % | 17.1914 | 17.191 |
| Carbon Monoxide & Nitrogen, % | 78.9619 | 78.962 |
| Fuel Factor | 0.96 | |
| Dry Molecular Weight, lb/lb-Mole | 29.3031 | 29.303 |
| Wet Molecular weight, lb/lb-Mole | 28.1105 | 28.111 |
| Flue Gas Static Pressure, inches of H2O | -0.71 | -0.710 |
| Absolute Flue Gas Pressure, inches of Mercury | 28.21 | 28.210 |
| Average Stack Gas Temperature, °F | 274.92 | 274.920 |
| Square Root of Average Velocity, inches of H2O | 0.6196 | 0.620 |
| Average Stack Gas Velocity, feet/second | 42.32 | 42.320 |
| Stack Cross-Sectional Area, square feet | 296.10 | 296.100 |
| Dry Volumetric Flow Rate, dry scfm | 455,383.7 | 455,383.700 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 751,857.1 | 751,857.100 |
| Percent Isokinetic of Sampling Rate, % | 100.4 | 100.400 |
| Percent Excess Air, % | 470.4 | 470.400 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Round Duct Diameter, inches | 233 | |
| Rectangular Duct Width, inches | | |
| Rectangular Duct Length, inches | | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| | | |
|----|---|-------|
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| Location EUKILN1 South Stack - Method 3A CO2 | | | | |
|--|------------------------|------------------------|------------------------|-------------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 3.4309 | 3.6388 | 3.6388 | 3.570 |
| Oxygen, % | 16.8571 | 16.5597 | 16.9 | 16.772 |
| Fuel Factor | 0 | 0 | 0.53 | |
| Dry Volumetric Flow Rate, dry scfm | 481509.2 | 474340 | 449721.1 | 468,523.433 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 12.0244 | 12.8115 | 13.4638 | 12.767 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1415B | 1415B | 1415B | |
| Operating Range | 21.1 | 21.1 | 21.1 | 21.100 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 160 | 161 | 168 | 163.000 |
| Calibration Set | 122 | 122 | 123 | 122.333 |
| Calibration Pre Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Pre Zero Cylinder Bias | 0.47 | 0.47 | 0.47 | 0.470 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Pre High Cylinder Instrument Response | 11.8 | 11.8 | 11.8 | 11.800 |
| Calibration Pre High Cylinder Bias | -0.47 | -0.47 | -0.47 | -0.470 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Post Zero Cylinder Bias | 0.47 | 0.47 | 0.47 | 0.470 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Post High Cylinder Instrument Response | 11.8 | 11.8 | 11.8 | 11.800 |
| Calibration Post High Cylinder Bias | -0.47 | -0.47 | -0.47 | -0.470 |
| Calibration Post High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Cavg | 3.5 | 3.7 | 3.7 | 3.633 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 3.4309 | 3.6388 | 3.6388 | 3.570 |
| Cgas Units | %vd | %vd | %vd | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| Location EUKILN1 South Stack - Method 3A CO2 3 | | | | |
|--|------------------------|------------------------|------------------------|-------------|
| | | | | Average |
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 AM | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 3.7428 | 3.7428 | 3.7428 | 3.743 |
| Oxygen, % | 16.7 | 16.8862 | 16.9879 | 16.858 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 445230.9 | 458202.5 | 461155.1 | 454,862.833 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 14.528 | 13.7447 | 13.4049 | 13.893 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1415B | 1415B | 1415B | |
| Operating Range | 21.1 | 21.1 | 21.1 | 21.100 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 159 | 160 | 158 | 159.000 |
| Calibration Set | 123 | 124 | 124 | 123.667 |
| Calibration Pre Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Pre Zero Cylinder Bias | 0.47 | 0.47 | 0.47 | 0.470 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Pre High Cylinder Instrument Response | 11.8 | 11.8 | 11.8 | 11.800 |
| Calibration Pre High Cylinder Bias | -0.47 | -0.47 | -0.47 | -0.470 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Post Zero Cylinder Bias | 0.47 | 0.47 | 0.47 | 0.470 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Post High Cylinder Instrument Response | 11.8 | 11.8 | 11.8 | 11.800 |
| Calibration Post High Cylinder Bias | -0.47 | -0.47 | -0.47 | -0.470 |
| Calibration Post High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Cavg | 3.8 | 3.8 | 3.8 | 3.800 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 3.7428 | 3.7428 | 3.7428 | 3.743 |
| Cgas Units | %vd | %vd | %vd | |

2022 05 Tilden Mine EUKILN1 ICR V2

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| Location EUKILN1 South Stack - Method 3A CO2 3 6 | | Average |
|--|------------------------|-------------|
| Run Number | 7 | |
| Test Date | 6/16/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 3.8467 | 3.847 |
| Oxygen, % | 17.1914 | 17.191 |
| Fuel Factor | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 455383.7 | 455,383.700 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 10.5733 | 10.573 |
| Analyzer Make | Servomex | |
| Analyzer Model | 1440 | 1,440.000 |
| Analyzer Serial Number | 1415B | |
| Operating Range | 21.1 | 21.100 |
| Operating Units | % | |
| No. Readings/Avg. | 158 | 158.000 |
| Calibration Set | 125 | 125.000 |
| Calibration Pre Zero Cylinder ID | CC238767 - CO2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.2 | 0.200 |
| Calibration Pre Zero Cylinder Bias | 0.47 | 0.470 |
| Calibration Pre Zero Cylinder Drift | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - CO2 Mid | |
| Calibration Pre High Cylinder Instrument Response | 11.8 | 11.800 |
| Calibration Pre High Cylinder Bias | -0.95 | -0.950 |
| Calibration Pre High Cylinder Drift | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - CO2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.2 | 0.200 |
| Calibration Post Zero Cylinder Bias | 0.47 | 0.470 |
| Calibration Post Zero Cylinder Drift | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - CO2 Mid | |
| Calibration Post High Cylinder Instrument Response | 11.8 | 11.800 |
| Calibration Post High Cylinder Bias | -0.95 | -0.950 |
| Calibration Post High Cylinder Drift | 0 | 0.000 |
| Cavg | 3.9 | 3.900 |
| Cavg Units | %vd | |
| Cgas | 3.8467 | 3.847 |
| Cgas Units | %vd | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| | | |
|-------------|---|-------|
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |
| Cgasw | 0 | 0.000 |
| Cgasw Units | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| Location EUKILN1 South Stack - Method 3A O2 | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/14/2022 | 6/14/2022 | 6/15/2022 | |
| Run Start Time | 12:17:27 PM | 3:46:27 PM | 10:20:57 AM | |
| Run Finish Time | 2:57:27 PM | 6:27:27 PM | 1:08:57 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 16.8571 | 16.5597 | 16.9 | 16.772 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1420B NNN | 1420B NNN | 1420B NNN | |
| Operating Range | 20.85 | 20.85 | 20.85 | 20.850 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 160 | 161 | 168 | 163.000 |
| Calibration Set | 112 | 112 | 113 | 112.333 |
| Calibration Pre Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Pre Zero Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Pre High Cylinder Instrument Response | 6.1 | 6.1 | 6.1 | 6.100 |
| Calibration Pre High Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Post Zero Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Post High Cylinder Instrument Response | 6.2 | 6.2 | 6.1 | 6.167 |
| Calibration Post High Cylinder Bias | 0.96 | 0.96 | 0.48 | 0.800 |
| Calibration Post High Cylinder Drift | 0.48 | 0.48 | 0 | 0.320 |
| Cavg | 17.2 | 16.9 | 17.1 | 17.067 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 16.8571 | 16.5597 | 16.9 | 16.772 |
| Cgas Units | %vd | %vd | %vd | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

2022 05 Tilden Mine EUKILN1 ICR V2

8/16/2022

Location EUKILN1 South Stack - Method 3A O2 3

| | | | | Average |
|--|-----------------------|-----------------------|-----------------------|-----------|
| Run Number | 4 | 5 | 6 | |
| Test Date | 6/15/2022 | 6/16/2022 | 6/16/2022 | |
| Run Start Time | 1:53:57 PM | 10:33:34 AM | 2:10:34 PM | |
| Run Finish Time | 4:35:57 PM | 1:13:34 PM | 4:48:34 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 16.7 | 16.8862 | 16.9879 | 16.858 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1420B NNN | 1420B NNN | 1420B NNN | |
| Operating Range | 20.85 | 20.85 | 20.85 | 20.850 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 159 | 160 | 158 | 159.000 |
| Calibration Set | 113 | 114 | 114 | 113.667 |
| Calibration Pre Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Pre Zero Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Pre High Cylinder Instrument Response | 6.1 | 6 | 6 | 6.033 |
| Calibration Pre High Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Post Zero Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Post High Cylinder Instrument Response | 6.1 | 6 | 6 | 6.033 |
| Calibration Post High Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Post High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Cavg | 16.9 | 16.8 | 16.9 | 16.867 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 16.7 | 16.8862 | 16.9879 | 16.858 |
| Cgas Units | %vd | %vd | %vd | |

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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| Location EUKILN1 South Stack - Method 3A O2 3 6 | | Average |
|--|-----------------------|-----------|
| Run Number | 7 | |
| Test Date | 6/17/2022 | |
| Run Start Time | 9:29:42 AM | |
| Run Finish Time | 12:07:42 PM | |
| Carbon Dioxide, % | 0 | 0.000 |
| Oxygen, % | 17.1914 | 17.191 |
| Fuel Factor | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0.000 |
| Moisture, % | 0 | 0.000 |
| Analyzer Make | Servomex | |
| Analyzer Model | 1440 | 1,440.000 |
| Analyzer Serial Number | 1420B NNN | |
| Operating Range | 20.85 | 20.850 |
| Operating Units | % | |
| No. Readings/Avg. | 158 | 158.000 |
| Calibration Set | 115 | 115.000 |
| Calibration Pre Zero Cylinder ID | CC238767 - O2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.2 | 0.200 |
| Calibration Pre Zero Cylinder Bias | 0.48 | 0.480 |
| Calibration Pre Zero Cylinder Drift | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - O2 Low | |
| Calibration Pre High Cylinder Instrument Response | 6 | 6.000 |
| Calibration Pre High Cylinder Bias | 0.48 | 0.480 |
| Calibration Pre High Cylinder Drift | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - O2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.2 | 0.200 |
| Calibration Post Zero Cylinder Bias | 0.48 | 0.480 |
| Calibration Post Zero Cylinder Drift | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - O2 Low | |
| Calibration Post High Cylinder Instrument Response | 6 | 6.000 |
| Calibration Post High Cylinder Bias | 0.48 | 0.480 |
| Calibration Post High Cylinder Drift | 0 | 0.000 |
| Cavg | 17.1 | 17.100 |
| Cavg Units | %vd | |
| Cgas | 17.1914 | 17.191 |
| Cgas Units | %vd | |

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| | | |
|-------------|---|-------|
| Fuel Type | | |
| Fw | 0 | 0.000 |
| Fc | 0 | 0.000 |
| Cgasw | 0 | 0.000 |
| Cgasw Units | | |

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Location EUKILN1 South Stack HCL HF Test - Method 10

| | | | | Average |
|--|-------------------------|-------------------------|-------------------------|-------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 3.6232 | 3.6232 | 3.6232 | 3.623 |
| Oxygen, % | 16.9879 | 16.9879 | 16.9879 | 16.988 |
| Fuel Factor | 1.08 | 1.08 | 1.08 | |
| Dry Volumetric Flow Rate, dry scfm | 462342.3 | 457856.5 | 475023.7 | 465,074.167 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 13.7448 | 13.988 | 14.3169 | 14.017 |
| Analyzer Make | Thermo Environmental | Thermo Environmental | Thermo Environmental | |
| Analyzer Model | 48 | 48 | 48 | 48.000 |
| Analyzer Serial Number | | | | |
| Operating Range | 92.9 | 92.9 | 92.9 | 92.900 |
| Operating Units | ppm | ppm | ppm | |
| No. Readings/Avg. | 110 | 114 | 110 | 111.333 |
| Calibration Set | 131 | 131 | 131 | 131.000 |
| Calibration Pre Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 1.5 | 1.5 | 1.5 | 1.500 |
| Calibration Pre Zero Cylinder Bias | 1.61 | 1.61 | 1.61 | 1.610 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Pre High Cylinder Instrument Response | 51.4 | 51.4 | 51.4 | 51.400 |
| Calibration Pre High Cylinder Bias | 0.86 | 0.86 | 0.86 | 0.860 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | EB0116426 - CO Zero | EB0116426 - CO Zero | EB0116426 - CO Zero | |
| Calibration Post Zero Cylinder Instrument Response | 1.5 | 1.5 | 1.5 | 1.500 |
| Calibration Post Zero Cylinder Bias | 1.61 | 1.61 | 1.61 | 1.610 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | CC238767 - CO Mid | CC238767 - CO Mid | CC238767 - CO Mid | |
| Calibration Post High Cylinder Instrument Response | 51 | 51 | 51 | 51.000 |
| Calibration Post High Cylinder Bias | 0.43 | 0.43 | 0.43 | 0.430 |
| Calibration Post High Cylinder Drift | 0.43 | 0.43 | 0.43 | 0.430 |
| Cavg | 14.9 | 14.1 | 14.3 | 14.433 |
| Cavg Units | ppmvd | ppmvd | ppmvd | |
| Cgas | 13.7775 | 12.9549 | 13.1606 | 13.298 |

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| Cgas Units | ppmvd | ppmvd | ppmvd | |
|-------------|-------|-------|-------|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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Location EUKILN1 South Stack HCL HF Test - Method 26A

| | | | | Average |
|---|-------------|-------------|------------|----------------|
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:31:00 AM | 12:55:00 PM | 3:08:00 PM | |
| Run Finish Time | 12:17:00 PM | 2:42:00 PM | 4:54:00 PM | |
| Net Traversing Points | 24 | 24 | 24 | |
| Net Run Time, minutes | 96 | 96 | 96 | |
| Nozzle Diameter, inches | 0.313 | 0.313 | 0.313 | 0.313 |
| Pitot Tube Coefficient | 0.83 | 0.83 | 0.83 | 0.830 |
| Dry Gas Meter Calibration Factor | 0.9845 | 0.9845 | 0.9845 | 0.985 |
| Barometric Pressure, inches of Mercury | 28.32 | 28.32 | 28.32 | 28.320 |
| Average Orifice Meter Differential, inches H2O | 2.76 | 2.73 | 2.96 | 2.817 |
| Dry Gas Meter Volume Sampled, cubic feet | 86.880 | 86.525 | 89.674 | 87.693 |
| Average Dry Gas Meter Temperature, °F | 65.23 | 66.19 | 68.67 | 66.697 |
| Dry Gas Meter Volume Sampled, dscf | 81.970 | 81.480 | 84.098 | 82.516 |
| Total Moisture Liquid collected, g | 277.0 | 281.0 | 298.0 | 285.333 |
| Volume of Water Vapor, standard cubic feet | 13.062 | 13.251 | 14.052 | 13.455 |
| Moisture Content of Stack Gas, % | 13.7448 | 13.9880 | 14.3169 | 14.017 |
| Moisture Saturation at Stack Gas Temperature, % | 100.00 | 100.00 | 100.00 | 100.000 |
| Dry Mole Fraction | 0.8626 | 0.8601 | 0.8568 | 0.860 |
| Carbon Dioxide, % | 3.6232 | 3.6232 | 3.6232 | 3.623 |
| Oxygen, % | 16.9879 | 16.9879 | 16.9879 | 16.988 |
| Carbon Monoxide & Nitrogen, % | 79.3889 | 79.3889 | 79.3889 | 79.389 |
| Fuel Factor | 1.08 | 1.08 | 1.08 | |
| Dry Molecular Weight, lb/lb-Mole | 29.2592 | 29.2592 | 29.2592 | 29.259 |
| Wet Molecular weight, lb/lb-Mole | 27.7151 | 27.6858 | 27.6485 | 27.683 |
| Flue Gas Static Pressure, inches of H2O | -0.71 | -0.71 | -0.71 | -0.710 |
| Absolute Flue Gas Pressure, inches of Mercury | 28.27 | 28.27 | 28.27 | 28.270 |
| Average Stack Gas Temperature, °F | 277.38 | 274.79 | 273.17 | 275.113 |
| Square Root of Average Velocity, inches of H2O | 0.6481 | 0.6422 | 0.6677 | 0.653 |
| Average Stack Gas Velocity, feet/second | 44.60 | 44.14 | 45.87 | 44.870 |
| Stack Cross-Sectional Area, square feet | 296.10 | 296.10 | 296.10 | 296.100 |
| Dry Volumetric Flow Rate, dry scfm | 462,342.3 | 457,856.5 | 475,023.7 | 465,074.167 |
| Actual Wet Volumetric Flue Gas Flow Rate, acfm | 792,363.6 | 784,191.2 | 814,926.4 | 797,160.400 |
| Percent Isokinetic of Sampling Rate, % | 102.3 | 102.7 | 102.2 | 102.400 |
| Percent Excess Air, % | 427.8 | 427.8 | 427.8 | 427.800 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Round Duct Diameter, inches | 233 | 233 | 233 | |
| Rectangular Duct Width, inches | | | | |
| Rectangular Duct Length, inches | | | | |

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| | | | | |
|----|---|---|---|-------|
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |

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| Location EUKILN1 South Stack HCL HF Test - Method 3A CO2 | | | | |
|--|------------------------|------------------------|------------------------|-------------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 3.6232 | 3.6232 | 3.6232 | 3.623 |
| Oxygen, % | 16.9879 | 16.9879 | 16.9879 | 16.988 |
| Fuel Factor | 1.08 | 1.08 | 1.08 | |
| Dry Volumetric Flow Rate, dry scfm | 462342.3 | 457856.5 | 475023.7 | 465,074.167 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 13.7448 | 13.988 | 14.3169 | 14.017 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1440 | 1440 | 1440 | 1,440.000 |
| Analyzer Serial Number | 1415B NNN | 1415B NNN | 1415B NNN | |
| Operating Range | 21.1 | 21.1 | 21.1 | 21.100 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 110 | 114 | 110 | 111.333 |
| Calibration Set | 121 | 121 | 121 | 121.000 |
| Calibration Pre Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.1 | 0.1 | 0.1 | 0.100 |
| Calibration Pre Zero Cylinder Bias | 0 | 0 | 0 | 0.000 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Pre High Cylinder Instrument Response | 11.7 | 11.7 | 11.7 | 11.700 |
| Calibration Pre High Cylinder Bias | -0.47 | -0.47 | -0.47 | -0.470 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - CO2 Zero | CC238767 - CO2 Zero | CC238767 - CO2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.1 | 0.1 | 0.1 | 0.100 |
| Calibration Post Zero Cylinder Bias | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | ALM031053 - CO2 Mid | |
| Calibration Post High Cylinder Instrument Response | 11.8 | 11.8 | 11.8 | 11.800 |
| Calibration Post High Cylinder Bias | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder Drift | 0.47 | 0.47 | 0.47 | 0.470 |
| Cavg | 3.6 | 3.6 | 3.6 | 3.600 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 3.6232 | 3.6232 | 3.6232 | 3.623 |
| Cgas Units | %vd | %vd | %vd | |

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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| Location EUKILN1 South Stack HCL HF Test - Method 3A O2 | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------|
| | | | | Average |
| Run Number | 1 | 2 | 3 | |
| Test Date | 6/13/2022 | 6/13/2022 | 6/13/2022 | |
| Run Start Time | 10:30:50 AM | 12:54:50 PM | 3:07:50 PM | |
| Run Finish Time | 12:20:50 PM | 2:48:50 PM | 4:57:50 PM | |
| Carbon Dioxide, % | 0 | 0 | 0 | 0.000 |
| Oxygen, % | 16.9879 | 16.9879 | 16.9879 | 16.988 |
| Fuel Factor | 0 | 0 | 0 | |
| Dry Volumetric Flow Rate, dry scfm | 0 | 0 | 0 | 0.000 |
| F-Factor, dscfm/MMBtu @ %O2 | 0 | 0 | 0 | 0.000 |
| Moisture, % | 0 | 0 | 0 | 0.000 |
| Analyzer Make | Servomex | Servomex | Servomex | |
| Analyzer Model | 1400 | 1400 | 1400 | 1,400.000 |
| Analyzer Serial Number | 1420B NNN | 1420B NNN | 1420B NNN | |
| Operating Range | 20.85 | 20.85 | 20.85 | 20.850 |
| Operating Units | % | % | % | |
| No. Readings/Avg. | 110 | 114 | 110 | 111.333 |
| Calibration Set | 111 | 111 | 111 | 111.000 |
| Calibration Pre Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Pre Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Pre Zero Cylinder Bias | 0.96 | 0.96 | 0.96 | 0.960 |
| Calibration Pre Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Pre High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Pre High Cylinder Instrument Response | 6 | 6 | 6 | 6.000 |
| Calibration Pre High Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Pre High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post Zero Cylinder ID | CC238767 - O2 Zero | CC238767 - O2 Zero | CC238767 - O2 Zero | |
| Calibration Post Zero Cylinder Instrument Response | 0.2 | 0.2 | 0.2 | 0.200 |
| Calibration Post Zero Cylinder Bias | 0.96 | 0.96 | 0.96 | 0.960 |
| Calibration Post Zero Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Calibration Post High Cylinder ID | ALM031053 - O2 Low | ALM031053 - O2 Low | ALM031053 - O2 Low | |
| Calibration Post High Cylinder Instrument Response | 6 | 6 | 6 | 6.000 |
| Calibration Post High Cylinder Bias | 0.48 | 0.48 | 0.48 | 0.480 |
| Calibration Post High Cylinder Drift | 0 | 0 | 0 | 0.000 |
| Cavg | 16.9 | 16.9 | 16.9 | 16.900 |
| Cavg Units | %vd | %vd | %vd | |
| Cgas | 16.9879 | 16.9879 | 16.9879 | 16.988 |
| Cgas Units | %vd | %vd | %vd | |

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| | | | | |
|-------------|---|---|---|-------|
| Fuel Type | | | | |
| Fw | 0 | 0 | 0 | 0.000 |
| Fc | 0 | 0 | 0 | 0.000 |
| Cgasw | 0 | 0 | 0 | 0.000 |
| Cgasw Units | | | | |

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Included Attachments:

| Attachments | |
|--|--|
| Source/Process Flow Diagram | Tilden Mine Pelletizing Process Flow EUKILN2.pdf |
| EPA Method 1 Location Supporting Documentation (Item 9) (optional) | Stack Diagram.pdf |
| Cyclonic Flow Absence Supporting Documentation (Item 10) | Cyclonic Flow.pdf |
| Pre-Test Meter Boxes/DGMs Calibrations | Pre-Test MB Calibration.pdf |
| Post-Test Meter Boxes/DGMs Calibrations | Post-Test MB.pdf |
| Nozzles Calibrations | Nozzle Calibration.pdf |
| Pitots Calibrations | Pitot Calibrations.pdf |
| Thermocouples Calibrations | Thermocouple Calibrations.pdf |
| Run Field Data Sheets (raw data sheets for field sampling) | Field Data Sheets.pdf |
| Moisture Recovery | Moisture Recovery.pdf |
| Lab Data (raw data sheets for field and laboratory analysis) | Method 26A Lab Report.pdf |
| Lab Data (raw data sheets for field and laboratory analysis) | Method 29 Lab Report.pdf |
| Chain-of-Custody | COC.pdf |
| Laboratory Accreditation Certification | Element One - F027 R1 Air Emissions Chain of Custody.pdf |
| Laboratory Accreditation Certification | Element One - LA_NELAP_Certificate_Parameter_List_EUKILN1_2022_2.pdf |
| Laboratory Accreditation Certification | Element One - NJ_NELAP_Certificate_u0026_Parameter_List_EUKILN1_2022_2.pdf |
| Laboratory Accreditation Certification | Element One - SOP-003 Sample Receiving and Storage Rev. 1.2.pdf |
| Laboratory Accreditation Certification | Element One - SOP-201 Method 29 and 26A.pdf |
| Laboratory Accreditation Certification | Enthalpy - COC2017v5.xlsx.pdf |
| Laboratory Accreditation Certification | Enthalpy - Durham_Louisiana-DEQ-NELAP 063022.pdf |
| Laboratory Accreditation Certification | Enthalpy - Durham_New-Jersey-DEP-NELAP 063022-1.pdf |

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| | |
|--|---|
| Laboratory Accreditation Certification | Enthalpy - SOP-001_R18 Receipt and Cus |
| Laboratory Accreditation Certification | Enthalpy - SOP-312_R15 EPA Methods 2 |
| Laboratory Accreditation Certification | Cliffs Tilden Unit 1 114 Request SOPs (Ne |
| Interference/Response Time/Converter Efficiency/Stratification Tests | Stratification.pdf |
| Process and APCD Monitor Calibrations | Non-CBI Production Data.pdf |
| Calibration Gas Certificates (Item 16) | Calibration Gas Certificates.pdf |
| Stratification Test | Stratification.pdf |
| Example calculations for reported results | Calculations.pdf |
| Example calculations for reported results | North Blanks and Mercury Analysis.pdf |
| Example calculations for reported results | North Lab Data Analysis.pdf |
| Example calculations for reported results | North Metals Summary.pdf |
| Example calculations for reported results | South Blanks and Mercury Analysis.pdf |
| Example calculations for reported results | South Lab Data Analysis.pdf |
| Example calculations for reported results | South Metals Summary.pdf |

Completeness Questions:

| Completeness Quality Assessment Questions | | |
|--|-----|------------------------------------|
| As described in ASTM D7036-12 Standard Practice for Competence of Air Emission Testing Bodies, does the testing firm meet the criteria as an AETB or is the person in charge of the field team a QI for the type of testing conducted? A certificate from an independent organization (e.g., Stack Testing Accreditation council (STAC), California Air Resources Board (CARB), National Environmental Laboratory Accreditation Program (NELAP) or self declaration provides documentation of competence as an AETB. | No | Not required for non-Part 75 testi |
| Is a description and drawing of test location provided? | Yes | |
| Has a description of deviations from published test methods been provided, or is there a statement that deviations were not required to obtain data representative of typical facility operation? | Yes | |
| Is a full description of the process and the unit being tested (including installed controls) provided? | Yes | |

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| | | |
|--|-----|----------------------------------|
| Has a detailed discussion of source operating conditions, air pollution control device operations and the representativeness of measurements made during the test been provided? | Yes | |
| Were the operating parameters for the tested process unit and associated controls described and reported? | Yes | |
| Is there an assessment of the validity, representativeness, achievement of DQO's and usability of the data? | Yes | |
| Have field notes addressing issues that may influence data quality been provided? | No | No field notes provided |
| Have the following been included in the report: Dry Gas Meter (DGM) calibrations, pitot tuve and nozzle inspections? | Yes | |
| Was the Method 1 sample point evaluation included in the report? | Yes | |
| Were the cyclonic flow checks included in the report? | Yes | |
| Were the raw sampling data and test sheets included in the report? | Yes | |
| Did the report include a description and flow diagram of the recovery procedures? | Yes | |
| Was the laboratory certified/accredited to perform these analyses? | Yes | |
| Did the report include a complete laboratory report and flow diagram of sample analysis? | Yes | |
| Were the chain-of-custody forms included in the report? | Yes | |
| Did the report include a complete description of the instrumental method sampling system? | Yes | |
| Did the report include calibration gas certifications? | Yes | |
| Did the report include interference tests? | Yes | |
| Were the response time tests included in the report? | Yes | |
| Were the calibration error tests included in the report? | No | See field data sheets |
| Did the report include drift tests? | No | See field data sheets |
| Did the report include system bias tests? | No | See field data sheets |
| Were the converter efficiency tests included in the report? | Yes | Not required for non-NOx testing |
| Did the report include stratification checks? | Yes | |

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| | | |
|--|-----|--|
| Did the report include the raw data for the instrumental method? | Yes | |
|--|-----|--|

Regulatory Review Questions:

| Regulatory Review Quality Assessment Questions | | |
|--|--|--|
| As described in ASTM D7036-12 Standard Practice for Competence of Air Emission Testing Bodies, does the testing firm meet the criteria as an AETB or is the person in charge of the field team a QI for the type of testing conducted? A certificate from an independent organization (e.g., STAC, CARB, NELAP) or self declaration provides documentation of competence as an AETB. | | |
| Was a representative of the regulatory agency on site during the test? | | |
| Is a description and drawing of test location provided? | | |
| Is there documentation that the source or the test company sought and obtained approval for deviations from the published test method prior to conducting the test or that the tester's assertion that deviations were not required to obtain data representative of operations that are typical for the facility? | | |
| Were all test method deviations acceptable? | | |
| Is a full description of the process and the unit being tested (including installed controls) provided? | | |
| Has a detailed discussion of source operating conditions, air pollution control device operations and the representativeness of measurements made during the test been provided? | | |
| Is there documentation that the required process monitors have been calibrated and that the calibration is acceptable? | | |
| Was the process capacity documented? | | |
| Was the process operating within an appropriate range for the test program objective? | | |
| Were process data concurrent with testing? | | |
| Were data included in the report for all parameters for which limits will be set? | | |
| Did the report discuss the representativeness of the facility operations, control device operation, and the measurements of the target pollutants, and were any changes from published test methods or process and control device monitoring protocols identified? | | |
| Were all sampling issues handled such that data quality was not adversely affected? | | |
| Was the DGM pre-test calibration within the criteria specified by the test method? | | |

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| Was the DGM post-test calibration within the criteria specified by the test method? | | |
| Were thermocouple calibrations within method criteria? | | |
| Was the pitot tube inspection acceptable? | | |
| Were nozzle inspections acceptable? | | |
| Were flow meter calibrations acceptable? | | |
| Were the appropriate number and location of sampling points used? | | |
| Did the cyclonic flow evaluation show the presence of an acceptable average gas flow angle? | | |
| Were all data required by the method recorded? | | |
| Were required leak checks performed and did the checks meet method requirements? | | |
| Was the required minimum sample volume collected? | | |
| Did probe, filter, and impinger exit temperatures meet method criteria (as applicable)? | | |
| Did isokinetic sampling rates meet method criteria? | | |
| Was the sampling time at each point greater than 2 minutes and the same for each point? | | |
| Was the recovery process consistent with the method? | | |
| Were all required blanks collected in the field? | | |
| Where performed, were blank corrections handled per method requirements? | | |
| Were sample volumes clearly marked on the jar or measured and recorded? | | |
| Was the laboratory certified/accredited to perform these analyses? | | |
| Did the laboratory note the sample volume upon receipt? | | |
| If sample loss occurred, was the compensation method used, documented, and approved for the method? | | |
| Were the physical characteristics of the samples (e.g., color, volume, integrity, pH, temperature) recorded and consistent with the method? | | |
| Were sample hold times within method requirements? | | |
| Does the laboratory report document the analytical procedures and techniques? | | |
| Were all laboratory QA requirements documented? | | |
| Were analytical standards required by the method documented? | | |

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| Were required laboratory duplicates within acceptable limits? | | |
| Were required spike recoveries within method requirements? | | |
| Were method-specific analytical blanks analyzed? | | |
| If problems occurred during analysis, is there sufficient documentation to conclude that the problems did not adversely affect the sample results? | | |
| Was the analytical detection limit specified in the test report? | | |
| Is the reported detection limit adequate for the purposes of the test program? | | |
| Do the chain-of-custody forms indicate acceptable management of collected samples between collection and analysis? | | |
| Was a complete description of the sampling system provided? | | |
| Were calibration standards used prior to the end of the expiration date? | | |
| Did calibration standards meet method criteria? | | |
| Did interference checks meet method requirements? | | |
| Was a response time test performed? | | |
| Did calibration error tests meet method requirements? | | |
| Were drift tests performed after each run and did they meet method requirements? | | |
| Did system bias checks meet method requirements? | | |
| Was the NOX converter test acceptable? | | |
| Was a stratification assessment performed? | | |
| Was the duration of each sample run within method criteria? | | |
| Was the appropriate traverse performed during sample collection, or was the probe placed at an appropriate center point (if allowed by the method)? | | |
| Were sample times at each point uniform and did they meet method requirements? | | |
| Were sample lines heated sufficiently to prevent potential adverse data quality issues? | | |
| Was all data required by the method recorded? | | |

Tester's DQ Assessment:

| Comment |
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