

Scientific Laboratory Division
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EPA: 141001-2011



LIMS Report #: 349785

Request Id: 2491529

Submitter: NMED - Ground Water Quality Bureau
DENNIS MCQUILLAN
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 418
Collector: DENNIS MCQUILLAN
User Code: 55410

CC Recipient(s):

Sample Location: ANIMAS AT SILVERTON CO
COC Initiated: Yes
Condition of Seal: Present & Intact

Sample #: 2016007015
Sample Type: Soil/Sediment
Date Collected: 3/7/2016 22:40
Date Received: 3/11/2016 9:07
Date Reported: 5/3/2016

Sample Note:

EPA 200.7 ICP/OES Metals (Solid)

Analysis Date: 4/28/2016	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Iron	73000	µg/g	0.05	100	500.00	MMW	
Note: Analyzed as received. Sample digested using SLD method 41415 (Resultant Prep Factor = 100)							

EPA 200.8 ICP/MS Metals (Solid)

Analysis Date: 03/21/2016 15:01	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Antimony	2.5	µg/g	0.001	10	1.0	SMP	D, F
Arsenic	47.0	µg/g	0.001	10	1.0	SMP	C
Barium	<100	µg/g	0.1	10	100	SMP	C
Beryllium	<1.0	µg/g	0.001	10	1.0	SMP	C
Cadmium	1.6	µg/g	0.001	10	1.0	SMP	C
Chromium	3.6	µg/g	0.001	10	1.0	SMP	C
Cobalt	2.8	µg/g	0.001	10	1.0	SMP	C
Copper	88	µg/g	0.01	10	10	SMP	C
Molybdenum	7.0	µg/g	0.001	10	1.0	SMP	C
Nickel	<10	µg/g	0.01	10	10	SMP	C
Silver	2.7	µg/g	0.001	10	1.0	SMP	D, F
Thallium	<1.0	µg/g	0.001	10	1.0	SMP	C
Uranium	<1.0	µg/g	0.001	10	1.0	SMP	C
Vanadium	25.9	µg/g	0.001	10	1.0	SMP	C
Zinc	421	µg/g	0.01	10	10	SMP	
Selenium	0	µg/g		10	5.0	RSF	A, C

Final

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Note: Analyzed as received. Sample digested using SLD method 41415 (Resultant Prep Factor = 100)
LFM recovery Antimony = 69.0% (EPA allows 70% - 130%)
LFM recovery Silver = 41.8% (EPA allows 70% - 130%)
Note - LIMS error with Selenium entry. Selenium < 5 µg/g, MRL = 0.005 µg/g, SDL = 5.0 µg/g. Analyst SMP

EPA 200.8 ICP/MS Metals (Solid)

Analysis Date: 04/06/2016 14:00	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Aluminum	5200	µg/g	0.01	200	200.0	SMP	
Lead	570	µg/g	0.001	200	20.0	SMP	
Manganese	420	µg/g	0.001	200	20.0	SMP	

Note: Analyzed as received. Sample digested using SLD method 41415 (Resultant Prep Factor = 100)

EPA 245.5 CVAA Mercury (Solid)

Analysis Date: 04/13/2016	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Mercury	<0.04	µg/g	0.0002	1	0.04	MMW	C

Note: Analyzed as received. Sample was analyzed via method 245.5 (Resultant Prep Factor = 200).

SOP 41903 HM Total Solids Weighing

Analysis Date: 3/15/2016	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Solids	62.4	%				MMW	

Final

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory

Q - Sample submitted to laboratory past holding time

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Final