

Scientific Laboratory Division
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EPA: 141001-2011



LIMS Report #: 349784

Request Id: 2491528

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 N OF DURANGO CO
COC Initiated: Yes
Condition of Seal: Present & Intact

Sample #: 2016007014
Sample Type: Soil/Sediment
Date Collected: 2/29/2016 17:40
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	180000	µg/g	0.05	300	1500.00	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 14:54	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Antimony	5.7	µg/g	0.001	10	1.0	SMP	F
Barium	203	µg/g	0.1	10	100.0	SMP	
Beryllium	2.3	µg/g	0.001	10	1.0	SMP	
Cadmium	1.7	µg/g	0.001	10	1.0	SMP	
Chromium	8.8	µg/g	0.001	10	1.0	SMP	
Cobalt	3.3	µg/g	0.001	10	1.0	SMP	
Copper	462	µg/g	0.01	10	10	SMP	
Molybdenum	27.7	µg/g	0.001	10	1.0	SMP	
Nickel	<10	µg/g	0.01	10	10	SMP	
Silver	15.9	µg/g	0.001	10	1.0	SMP	F
Selenium	<5.0	µg/g	0.005	10	5.0	SMP	
Note: Analyzed as received. Sample digested using SLD method 41415 (Resultant Prep Factor = 100)							

EPA 200.8 ICP/MS Metals (Solid)

Analysis Date: 04/06/2016 13:46	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
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Final

Sample #: 2016007014

Sample #: 2016007014
 Sample Type: Soil/Sediment

Date Collected: 2/29/2016 17:40
 Date Received: 3/11/2016 9:07
 Date Reported: 5/3/2016

EPA 200.8 ICP/MS Metals (Solid)

Analysis Date: 04/06/2016 13:46	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Aluminum	14000	µg/g	0.01	300	300.0	SMP	
Manganese	1100	µg/g	0.001	300	30.0	SMP	
Thallium	<30	µg/g	0.001	300	30.0	SMP	A
Uranium	<30	µg/g	0.001	300	30.0	SMP	A
Note: Analyzed as received. Sample digested using SLD method 41415 (Resultant Prep Factor = 100) Note - Thallium and Uranium internal standard not within method acceptance limits when analyzed at lowest dilution of 10.							

EPA 200.8 ICP/MS Metals (Solid)

Analysis Date: 04/06/2016 13:50	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Arsenic	120	µg/g	0.001	50	5.0	SMP	
Note: Analyzed as received. Sample digested using SLD method 41415 (Resultant Prep Factor = 100)							

EPA 200.8 ICP/MS Metals (Solid)

Analysis Date: 04/06/2016 13:53	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Vanadium	77	µg/g	0.001	20	2.0	SMP	
Zinc	730	µg/g	0.01	20	20	SMP	
Note: Analyzed as received. Sample digested using SLD method 41415 (Resultant Prep Factor = 100)							

EPA 200.8 ICP/MS Metals (Solid)

Analysis Date: 04/12/2016 14:30	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Lead	3100	µg/g	0.001	1000	100	SMP	A
Note: Analyzed as received. Sample digested using SLD method 41415 (Resultant Prep Factor = 100) Note - Lead internal standard not within method acceptance limits when analyzed at lowest dilution of 10.							

EPA 245.5 CVAA Mercury (Solid)

Analysis Date: 04/13/2016	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Mercury	0.33	µg/g	0.0002	1	0.04	MMW	
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	33.2	%				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. | L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level. |
| B - Analyte was detected in the laboratory blank. | M - Regulated parameter value equals or exceeds the EPA SDWA Action Level. |
| C - Spike recovery is within method acceptance limits. | N - Insufficient sample to verify results. |
| D - Spike recovery is not within method acceptance limits. | O - Method internal standard(s) not within method acceptance limits when analyzed undiluted. |
| E - Analyte value exceeded calibration range. | P - Sample rejected/voided at laboratory |
| F - Sample matrix interference suspected. | Q - Sample submitted to laboratory past holding time |
| H - Sample was analyzed in duplicate. | S - Relative percent difference between duplicates greater than 10% (waters). |
| I - Sample was analyzed in triplicate. | T - Relative percent difference between duplicates greater than 30% (soils). |
| J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. | U - Analyte was not detected in this sample above the method's sample detection limit. |
| K - Holding time was exceeded at laboratory. | |

Final