



Division of Environmental Testing

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

April 23, 2024

1600 Broadway Ste 1050
Denver, CO 80202
303-929-9513
ryan@petersonenergyoperating.com

Project Manager : Ryan Dornbos

Project Name : State 1 and 3

Project Number : N/A

Attached are the analytical results for State 1 and 3 N/A received by Elevation Diagnostics, Division of Environmental Testing on April 15, 2024. This is associated with Elevation's number AA07244 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Reichel
Laboratory Director
CSO,CCO






Chain of Custody Form


Elevation Diagnostics

2115 North Scranton Street Suite 3040A Aurora, CO 80045
800.440.5184

Client: CENTRAL OPERATING
Address: _____
City/State/ZIP: _____
Phone: 303 929 9513
Project Contact: MSMITH@ARDORENMENTAL.COM
TFANNING@ARDORENMENTAL.COM

Project Name: STATE 1 AND 3
Project Location: WASHINGTON COUNTY 12 EMM
Collector Name: RYAN DORNBOS

Sample ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Notes
					HCl	HNO ₃	None	Other	Water	Soil	Other	ELMC TABLE 915	pH, EC, SAR, BORON	ELMC 915 METALS				
1	SP-1 18"	4/15/23	1000	3			X			X		X						
2	SP-2 18"		1005	1			X			X		X						
3	SP-3 18"		1010	1			X			X		X						
4	BG-1 18"		1015				X			X			X	X				
5	BG-2 18"		1020				X			X			X	X				
6																		
7																		
8																		
9																		
10																		

Relinquished By: <u>RYAN DORNBOS</u>	Relinquished By: <u>Kate Ruhl</u>	Relinquished By: _____	Scan to Deliver Samples 
Date/Time: <u>4/15/23 1228</u>	Date/Time: <u>1228 04.15.2024</u>	Date/Time: _____	
Lab Use Only Observed Temperature Upon Receipt: <u>24.0°C</u> Corrected Temperature Upon Receipt: <u>25.3°C</u> Thermometer #: <u>EDX EQ 248</u> Correction Factor: <u>+1.3°C</u>	Samples Intact: Yes <input checked="" type="radio"/> No <input type="radio"/> pH Checked: Yes <input checked="" type="radio"/> No <input type="radio"/> pH Adjusted: Yes <input checked="" type="radio"/> No <input type="radio"/> Name/Lot Number of Adjustment: _____		

2024-04-15-005

EFOR-008.002

**Division of Environmental Testing**

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

Report Date : 4/23/2024**Report Time :** 22:44**FINAL RESULTS REPORT****Project Manager:** Ryan Dornbos**Project Name:** State 1 and 3**Project Number:** N/A

Sample ID	Customer ID	Collected		Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start						Recovery
AA07244-1	SP-1 18'	Collected : 04/15/2024		10:00				
SAR - Calcium		04/17/2024	14:15	10.00	2.399	mEq/L	0.000	EPA 6020B
SAR - Magnesium		04/17/2024	14:15	10.00	0.588	mEq/L	0.000	EPA 6020B
SAR - Sodium		04/17/2024	14:15	10.00	4.061	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		04/17/2024	14:15		3.323		0.000	EPA 6020B
Soil Conductivity		04/16/2024	15:16		0.629	mmhos/cm		USDA 60
AA07244-2	SP-1 18'	Collected : 04/15/2024		10:00				
Chromium VI, Soil		04/17/2024	08:56		<0.080	mg/kg	0.080	EPA 7199
Hot Water Soluble Boron		04/16/2024	16:48		1.253	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		04/16/2024	11:27		20.0	°C		
pH, Soils		04/16/2024	11:27		8.58	S.U.	0.01	EPA 9045D
Total Metals, Soils - Arsenic		04/16/2024	08:09	10.00	2.843	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		04/16/2024	08:09	10.00	112.999	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		04/16/2024	08:09	10.00	0.157	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		04/16/2024	08:09	10.00	2.458	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		04/16/2024	08:09	10.00	9.079	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		04/16/2024	08:09	10.00	3.233	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		04/16/2024	08:09	10.00	2.304	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		04/16/2024	08:09	10.00	<0.025	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Zinc		04/16/2024	08:09	10.00	30.241	mg/kg	0.025	EPA 6020B
AA07244-3	SP-1 18'	Collected : 04/15/2024		10:00				
DRO & ORO, Soil - DRO		04/23/2024	21:47		Not Detected	mg/kg	100.00	EPA 8015D
DRO & ORO, Soil - ORO		04/23/2024	21:47		Not Detected	mg/kg	100.00	EPA 8015D
Gasoline Range Organics, Soil		04/18/2024	16:16		<0.26827	mg/kg	0.26827	EPA 8260
SVOC, Soils - 1-methylnaphthalene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - 2-methylnaphthalene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	3.00	EPA 8270
SVOC, Soils - Acenaphthene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	10.00	EPA 8270
SVOC, Soils - Anthracene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	5.84	EPA 8270
SVOC, Soils - Benz(a)anthracene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	6.23	EPA 8270
SVOC, Soils - Benzo(a)pyrene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	5.93	EPA 8270
SVOC, Soils - Benzo(b)fluoranthene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Benzo(k)fluoranthene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Chrysene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Dibenzo(a,h)anthracene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Fluoranthene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	3.36	EPA 8270
SVOC, Soils - Fluorene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	10.00	EPA 8270
SVOC, Soils - Indeno(1,2,3-cd)pyrene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	4.55	EPA 8270
SVOC, Soils - Naphthalene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	3.06	EPA 8270
SVOC, Soils - Pyrene		04/22/2024	09:37	100.00	Not Detected - RL1	mg/kg	10.00	EPA 8270
VOC, Soils - 1,2,4-trimethylbenzene		04/18/2024	15:17		Not Detected	mg/kg	0.00245	EPA 8260
VOC, Soils - 1,3,5-trimethylbenzene		04/18/2024	15:17		Not Detected	mg/kg	0.005	EPA 8260
VOC, Soils - Benzene		04/18/2024	15:17		<0.00242	mg/kg	0.00242	EPA 8260
VOC, Soils - Ethylbenzene		04/18/2024	15:17		<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - m&p- xylene		04/18/2024	15:17		<0.00427	mg/kg	0.00427	EPA 8260

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Report Date : 4/23/2024**Report Time :** 22:44**FINAL RESULTS REPORT****Project Manager:** Ryan Dornbos**Project Name:** State 1 and 3**Project Number:** N/A

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start					Recovery
VOC, Soils - o-xylene		04/18/2024 15:17		<0.00227	mg/kg	0.00227	EPA 8260
VOC, Soils - Toluene		04/18/2024 15:17		<0.00263	mg/kg	0.00263	EPA 8260
VOC, Soils - Xylenes, total		04/18/2024 15:17		<0.00654	mg/kg	0.00654	EPA 8260
AA07245-1	SP-2 18'	Collected : 04/15/2024 10:05					
SAR - Calcium		04/17/2024 14:15	10.00	1.406	mEq/L	0.000	EPA 6020B
SAR - Magnesium		04/17/2024 14:15	10.00	0.344	mEq/L	0.000	EPA 6020B
SAR - Sodium		04/17/2024 14:15	10.00	9.607	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		04/17/2024 14:15		10.270		0.000	EPA 6020B
Soil Conductivity		04/16/2024 15:16		1.159	mmhos/cm		USDA 60
AA07245-2	SP-2 18'	Collected : 04/15/2024 10:05					
Chromium VI, Soil		04/17/2024 08:56		<.080	mg/kg	0.080	EPA 7199
Hot Water Soluble Boron		04/16/2024 16:48		1.458	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		04/16/2024 11:27		20.0	°C		
pH, Soils		04/16/2024 11:27		9.22	S.U.	0.01	EPA 9045D
Total Metals, Soils - Arsenic		04/16/2024 08:09	10.00	2.492	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		04/16/2024 08:09	10.00	105.113	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		04/16/2024 08:09	10.00	0.106	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		04/16/2024 08:09	10.00	2.543	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		04/16/2024 08:09	10.00	7.415	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		04/16/2024 08:09	10.00	1.678	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		04/16/2024 08:09	10.00	2.194	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		04/16/2024 08:09	10.00	<0.025	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Zinc		04/16/2024 08:09	10.00	26.713	mg/kg	0.025	EPA 6020B
AA07245-3	SP-2 18'	Collected : 04/15/2024 10:05					
DRO & ORO, Soil - DRO		04/23/2024 21:47		Not Detected	mg/kg	100.00	EPA 8015D
DRO & ORO, Soil - ORO		04/23/2024 21:47		Not Detected	mg/kg	100.00	EPA 8015D
Gasoline Range Organics, Soil		04/18/2024 16:18		<0.26827	mg/kg	0.26827	EPA 8260
SVOC, Soils - 1-methylnaphthalene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - 2-methylnaphthalene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	3.00	EPA 8270
SVOC, Soils - Acenaphthene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	10.00	EPA 8270
SVOC, Soils - Anthracene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.8	EPA 8270
SVOC, Soils - Benz(a)anthracene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	6.23	EPA 8270
SVOC, Soils - Benzo(a)pyrene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.93	EPA 8270
SVOC, Soils - Benzo(b)fluoranthene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Benzo(k)fluoranthene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Chrysene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Dibenzo(a,h)anthracene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Fluoranthene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	3.36	EPA 8270
SVOC, Soils - Fluorene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	10.00	EPA 8270
SVOC, Soils - Indeno(1,2,3-cd)pyrene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	4.55	EPA 8270
SVOC, Soils - Naphthalene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	3.06	EPA 8270
SVOC, Soils - Pyrene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	10.00	EPA 8270
VOC, Soils - 1,2,4-trimethylbenzene		04/18/2024 15:17		Not Detected	mg/kg	0.00245	EPA 8260
VOC, Soils - 1,3,5-trimethylbenzene		04/18/2024 15:17		Not Detected	mg/kg	0.005	EPA 8260

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Report Date : 4/23/2024**Report Time :** 22:44**FINAL RESULTS REPORT****Project Manager:** Ryan Dornbos**Project Name:** State 1 and 3**Project Number:** N/A

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start					Recovery
VOC, Soils - Benzene		04/18/2024 15:17		<0.00242	mg/kg	0.00242	EPA 8260
VOC, Soils - Ethylbenzene		04/18/2024 15:17		<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - m&p- xylene		04/18/2024 15:17		<0.00427	mg/kg	0.00427	EPA 8260
VOC, Soils - o-xylene		04/18/2024 15:17		<0.00227	mg/kg	0.00227	EPA 8260
VOC, Soils - Toluene		04/18/2024 15:17		<0.00263	mg/kg	0.00263	EPA 8260
VOC, Soils - Xylenes, total		04/18/2024 15:17		<0.00654	mg/kg	0.00654	EPA 8260
AA07246-1	SP-3 18'	Collected : 04/15/2024 10:10					
SAR - Calcium		04/17/2024 14:15	10.00	1.285	mEq/L	0.000	EPA 6020B
SAR - Magnesium		04/17/2024 14:15	10.00	0.349	mEq/L	0.000	EPA 6020B
SAR - Sodium		04/17/2024 14:15	10.00	9.981	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		04/17/2024 14:15		11.039		0.000	EPA 6020B
Soil Conductivity		04/16/2024 15:16		1.276	mmhos/cm		USDA 60
AA07246-2	SP-3 18'	Collected : 04/15/2024 10:10					
Chromium VI, Soil		04/17/2024 08:56		<0.080	mg/kg	0.080	EPA 7199
Hot Water Soluble Boron		04/16/2024 16:48		0.878	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		04/16/2024 11:27		20.0	°C		
pH, Soils		04/16/2024 11:27		9.19	S.U.	0.01	EPA 9045D
Total Metals, Soils - Arsenic		04/16/2024 08:09	10.00	2.570	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		04/16/2024 08:09	10.00	142.531	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		04/16/2024 08:09	10.00	0.130	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		04/16/2024 08:09	10.00	1.030	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		04/16/2024 08:09	10.00	7.619	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		04/16/2024 08:09	10.00	1.310	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		04/16/2024 08:09	10.00	1.969	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		04/16/2024 08:09	10.00	<0.025	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Zinc		04/16/2024 08:09	10.00	22.895	mg/kg	0.025	EPA 6020B
AA07246-3	SP-3 18'	Collected : 04/15/2024 10:10					
DRO & ORO, Soil - DRO		04/23/2024 21:47		Not Detected	mg/kg	100.00	EPA 8015D
DRO & ORO, Soil - ORO		04/23/2024 21:47		Not Detected	mg/kg	100.00	EPA 8015D
Gasoline Range Organics, Soil		04/18/2024 16:18		<0.26827	mg/kg	0.26827	EPA 8260
SVOC, Soils - 1-methylnaphthalene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - 2-methylnaphthalene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	3.00	EPA 8270
SVOC, Soils - Acenaphthene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	10.00	EPA 8270
SVOC, Soils - Anthracene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.84	EPA 8270
SVOC, Soils - Benz(a)anthracene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	6.23	EPA 8270
SVOC, Soils - Benzo(a)pyrene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.93	EPA 8270
SVOC, Soils - Benzo(b)fluoranthene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Benzo(k)fluoranthene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Chrysene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Dibenzo(a,h)anthracene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	5.00	EPA 8270
SVOC, Soils - Fluoranthene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	3.36	EPA 8270
SVOC, Soils - Fluorene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	10.00	EPA 8270
SVOC, Soils - Indeno(1,2,3-cd)pyrene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	4.55	EPA 8270
SVOC, Soils - Naphthalene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	3.06	EPA 8270

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Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start					Recovery
SVOC, Soils - Pyrene		04/22/2024 09:37	100.00	Not Detected - RL1	mg/kg	10.00	EPA 8270
VOC, Soils - 1,2,4-trimethylbenzene		04/18/2024 15:17		Not Detected	mg/kg	0.00245	EPA 8260
VOC, Soils - 1,3,5-trimethylbenzene		04/18/2024 15:17		Not Detected	mg/kg	0.005	EPA 8260
VOC, Soils - Benzene		04/18/2024 15:17		<0.00242	mg/kg	0.00242	EPA 8260
VOC, Soils - Ethylbenzene		04/18/2024 15:17		<0.005	mg/kg	0.005	EPA 8260
VOC, Soils - m&p- xylene		04/18/2024 15:17		<0.00427	mg/kg	0.00427	EPA 8260
VOC, Soils - o-xylene		04/18/2024 15:17		<0.00227	mg/kg	0.00227	EPA 8260
VOC, Soils - Toluene		04/18/2024 15:17		<0.00263	mg/kg	0.00263	EPA 8260
VOC, Soils - Xylenes, total		04/18/2024 15:17		<0.00654	mg/kg	0.00654	EPA 8260
AA07247-1	BG-1 18'	Collected : 04/15/2024 10:15					
SAR - Calcium		04/17/2024 14:15	10.00	4.129	mEq/L	0.000	EPA 6020B
SAR - Magnesium		04/17/2024 14:15	10.00	1.379	mEq/L	0.000	EPA 6020B
SAR - Sodium		04/17/2024 14:15	10.00	0.935	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		04/17/2024 14:15		0.564		0.000	EPA 6020B
Soil Conductivity		04/16/2024 15:16		0.557	mmhos/cm		USDA 60
AA07247-2	BG-1 18'	Collected : 04/15/2024 10:15					
Hot Water Soluble Boron		04/16/2024 16:48		0.279	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		04/16/2024 11:27		20.0	°C		
pH, Soils		04/16/2024 11:27		8.29	S.U.	0.01	EPA 9045D
AA07247-3	BG-1 18'	Collected : 04/15/2024 10:15					
Chromium VI, Soil		04/17/2024 08:56		<0.080	mg/kg	0.080	EPA 7199
Total Metals, Soils - Arsenic		04/16/2024 08:09	10.00	3.055	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		04/16/2024 08:09	10.00	137.802	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		04/16/2024 08:09	10.00	0.188	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		04/16/2024 08:09	10.00	3.605	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		04/16/2024 08:09	10.00	9.694	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		04/16/2024 08:09	10.00	4.125	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		04/16/2024 08:09	10.00	2.173	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		04/16/2024 08:09	10.00	<0.025	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Zinc		04/16/2024 08:09	10.00	29.185	mg/kg	0.025	EPA 6020B
AA07248-1	BG-2 18'	Collected : 04/15/2024 10:20					
SAR - Calcium		04/17/2024 14:15	10.00	2.951	mEq/L	0.000	EPA 6020B
SAR - Magnesium		04/17/2024 14:15	10.00	0.930	mEq/L	0.000	EPA 6020B
SAR - Sodium		04/17/2024 14:15	10.00	3.111	mEq/L	0.000	EPA 6020B
SAR - Sodium Adsorption Ratio		04/17/2024 14:15		2.233		0.000	EPA 6020B
Soil Conductivity		04/16/2024 15:16		0.643	mmhos/cm		USDA 60
AA07248-2	BG-2 18'	Collected : 04/15/2024 10:20					
Hot Water Soluble Boron		04/16/2024 16:48		0.358	mg/kg	0.050	Boron Hot Water Extraction
pH, Soils Temperature		04/16/2024 11:27		20.0	°C		
pH, Soils		04/16/2024 11:27		8.74	S.U.	0.01	EPA 9045D
AA07248-3	BG-2 18'	Collected : 04/15/2024 10:20					
Chromium VI, Soil		04/17/2024 08:56		<0.080	mg/kg	0.080	EPA 7199
Total Metals, Soils - Arsenic		04/16/2024 08:09	10.00	3.594	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		04/16/2024 08:09	10.00	162.921	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		04/16/2024 08:09	10.00	0.192	mg/kg	0.001	EPA 6020B



Division of Environmental Testing

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

Report Date : 4/23/2024

Report Time : 22:44

FINAL RESULTS REPORT

Project Manager: Ryan Dornbos

Project Name: State 1 and 3

Project Number: N/A

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start					Recovery
Total Metals, Soils - Copper		04/16/2024	08:09	10.00	4.086	mg/kg	0.025 EPA 6020B
Total Metals, Soils - Lead		04/16/2024	08:09	10.00	10.927	mg/kg	0.025 EPA 6020B
Total Metals, Soils - Nickel		04/16/2024	08:09	10.00	4.914	mg/kg	0.025 EPA 6020B
Total Metals, Soils - Selenium		04/16/2024	08:09	10.00	2.036	mg/kg	0.025 EPA 6020B
Total Metals, Soils - Silver		04/16/2024	08:09	10.00	<0.025	mg/kg	0.025 EPA 6020B
Total Metals, Soils - Zinc		04/16/2024	08:09	10.00	30.656	mg/kg	0.025 EPA 6020B

QC Report

BORON-2668		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07247	0.274	0.050	mg/kg		0.279			1.8083	-15 - 15
MB AA07250	0.006		mg/kg						
LCS AA07251	0.945		mg/kg	1.000		94.5	80 - 120		
LCS AA07252	8.109		mg/kg	9.000		90.1	80 - 120		
CHROM_VI_SOIL-2682		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07244	0.085	0.080	mg/kg		<0.080				
MB AA07270	0.028		mg/kg						
LCS AA07272	38.65		mg/kg	40.00		96.6			
LCS AA07273	38.40		mg/kg	40.00		96.0			
ECISOIL_MMHOS-2678		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07244	0.643		mmhos/cm		0.629			2.2013	
LCS AA07264	9.540		mmhos/cm	10.000		95.4			
LCS AA07265	9.450		mmhos/cm	10.000		94.5			
GRO_SOIL-2692		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07246	0.68810	0.26827	mg/kg		<0.26827			24.186	
Matrix Spike AA07246	0.87742		mg/kg	2.150	<0.26827	40.8			
MB AA07292	<0.26827		mg/kg						
LCS AA07293	2.42323		mg/kg	2.150		113			
LCS AA07294	2.30883		mg/kg	2.150		107			
PH_S-2674		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07247	8.36	0.01	S.U.		8.29			0.8408408408	-5 - 5
LCS AA07261	6.88	0.01	S.U.	6.86		100	95 - 105		
LCS AA07262	6.88	0.01	S.U.	6.86		100	95 - 105		

**Division of Environmental Testing**

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FINAL RESULTS REPORT**Report Date :** 4/23/2024**Report Time :** 22:44**Project Manager:** Ryan Dornbos**Project Name:** State 1 and 3**Project Number:** N/A**QC Report**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DRO_ORO_SOIL-2684									
AA07244									
DUP									
DRO	375.44				Not Detected			13.4	
ORO	289.19				Not Detected			6.88	
Matrix Spike									
DRO	429.48		mg/kg	350	Not Detected	123			
ORO	309.79		mg/kg	350	Not Detected	88.5			
AA07274									
MB									
DRO	Not Detected		mg/kg						
ORO	Not Detected		mg/kg						
AA07275									
LCS									
DRO	432.23		mg/kg			123			
ORO	227.08		mg/kg			64.9			
AA07276									
DRO	424.55		mg/kg			121			
ORO	276.32		mg/kg			78.9			
METALS_S-2672									
AA07256									
MB									
Arsenic	0.000		mg/kg						
Barium	-0.003		mg/kg						
Cadmium	0.000		mg/kg						
Copper	-0.005		mg/kg						
Lead	0.001		mg/kg						
Nickel	-0.006		mg/kg						
Selenium	0.000		mg/kg						
Silver	-0.003		mg/kg						
Zinc	-0.001		mg/kg						
AA07258									
LCS									
Arsenic	0.087		mg/kg			96.7	80 - 120		
Barium	0.098		mg/kg			109	80 - 120		
Cadmium	0.091		mg/kg			101	80 - 120		
Copper	0.096		mg/kg			107	80 - 120		
Lead	0.091		mg/kg			101	80 - 120		
Nickel	0.094		mg/kg			104	80 - 120		
Selenium	0.094		mg/kg			104	80 - 120		
Silver	0.090		mg/kg			100	80 - 120		
Zinc	0.092		mg/kg			102	80 - 120		
AA07259									
Arsenic	0.087		mg/kg			96.7	80 - 120		



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Project Manager: Ryan Dornbos

Project Name: State 1 and 3

Project Number: N/A

QC Report

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Barium	0.094		mg/kg			104	80 - 120		
Cadmium	0.088		mg/kg			97.8	80 - 120		
Copper	0.095		mg/kg			106	80 - 120		
Lead	0.088		mg/kg			97.8	80 - 120		
Nickel	0.093		mg/kg			103	80 - 120		
Selenium	0.090		mg/kg			100	80 - 120		
Silver	0.088		mg/kg			97.8	80 - 120		
Zinc	0.091		mg/kg			101	80 - 120		

SAR-2636

AA07195

MB

Calcium	0.000	mEq/L
Magnesium	0.006	mEq/L
Sodium	0.079	mEq/L
Sodium Adsorption Ratio	0	

AA07196

LCS

Calcium	11.447	ppm	114
Magnesium	10.710	ppm	107
Sodium	10.835	ppm	108

AA07197

Calcium	459.984	ppm	92.0
Magnesium	448.955	ppm	89.8
Sodium	447.567	ppm	89.5

SVOC_SOIL-2686

AA07278

MB

1-methylnaphthalene	Not Detected	mg/kg
2-methylnaphthalene	Not Detected	mg/kg
Acenaphthene	Not Detected	mg/kg
Anthracene	Not Detected	mg/kg
Benz(a)anthracene	<0.00623	mg/kg
Benzo(a)pyrene	Not Detected	mg/kg
Benzo(b)fluoranthene	Not Detected	mg/kg
Benzo(k)fluoranthene	<0.005	mg/kg
Chrysene	<0.005	mg/kg
Dibenzo(a,h)anthracene	Not Detected	mg/kg
Fluoranthene	<0.00336	mg/kg
Fluorene	Not Detected	mg/kg
Indeno(1,2,3-cd)pyrene	Not Detected	mg/kg
Naphthalene	Not Detected	mg/kg
Pyrene	Not Detected	mg/kg

AA07279

LCS

**Division of Environmental Testing**

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FINAL RESULTS REPORT**Report Date :** 4/23/2024**Report Time :** 22:44**Project Manager:** Ryan Dornbos**Project Name:** State 1 and 3**Project Number:** N/A**QC Report**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
1-methylnaphthalene	0.35090		mg/kg			117			
2-methylnaphthalene	0.36703		mg/kg			122			
Acenaphthene	0.38598		mg/kg			129			
Anthracene	0.34428		mg/kg			115			
Benz(a)anthracene	0.30837		mg/kg			103			
Benzo(a)pyrene	0.31904		mg/kg			106			
Benzo(b)fluoranthene	0.32739		mg/kg			109			
Benzo(k)fluoranthene	0.38624		mg/kg			129			
Chrysene	0.31590		mg/kg			105			
Dibenzo(a,h)anthracene	0.24565		mg/kg			81.9			
Fluoranthene	0.35966		mg/kg			120			
Fluorene	0.38013		mg/kg			127			
Indeno(1,2,3-cd)pyrene	0.24516		mg/kg			81.7			
Naphthalene	0.36721		mg/kg			122			
Pyrene	0.33569		mg/kg			112			

AA07280

1-methylnaphthalene	0.21917		mg/kg			73.1			
2-methylnaphthalene	0.26664		mg/kg			88.9			
Acenaphthene	0.25263		mg/kg			84.2			
Anthracene	0.35168		mg/kg			117			
Benz(a)anthracene	0.37880		mg/kg			126			
Benzo(a)pyrene	0.29259		mg/kg			97.5			
Benzo(b)fluoranthene	0.31050		mg/kg			104			
Benzo(k)fluoranthene	0.35886		mg/kg			120			
Chrysene	0.35021		mg/kg			117			
Dibenzo(a,h)anthracene	0.28888		mg/kg			96.3			
Fluoranthene	0.33491		mg/kg			112			
Fluorene	0.25514		mg/kg			85.0			
Indeno(1,2,3-cd)pyrene	0.26749		mg/kg			89.2			
Naphthalene	0.24772		mg/kg			82.6			
Pyrene	0.31989		mg/kg			107			

VOC_S-2691**AA07289****MB**

1,2,4-trimethylbenzene	Not Detected	mg/kg
1,3,5-trimethylbenzene	Not Detected	mg/kg
Benzene	<0.00242	mg/kg
Ethylbenzene	<0.005	mg/kg
m&p- xylene	<0.00427	mg/kg
o-xylene	<0.00227	mg/kg
Toluene	<0.00263	mg/kg
Xylenes, total	<0.00654	mg/kg

AA07290**LCS**



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Project Manager: Ryan Dornbos

Project Name: State 1 and 3

Project Number: N/A

QC Report

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
1,2,4-trimethylbenzene	0.04495		mg/kg			89.9			
1,3,5-trimethylbenzene	0.04790		mg/kg			95.8			
Benzene	0.05370		mg/kg			107			
Ethylbenzene	0.04750		mg/kg			95.0			
m&p- xylene	0.09770		mg/kg			97.7			
o-xylene	0.04551		mg/kg			91.0			
Toluene	0.05218		mg/kg			104			
Xylenes, total	0.14321		mg/kg			95.5			

AA07291

1,2,4-trimethylbenzene	0.04588		mg/kg			91.8			
1,3,5-trimethylbenzene	0.04835		mg/kg			96.7			
Benzene	0.05407		mg/kg			108			
Ethylbenzene	0.04642		mg/kg			92.8			
m&p- xylene	0.09486		mg/kg			94.9			
o-xylene	0.04534		mg/kg			90.7			
Toluene	0.05008		mg/kg			100			
Xylenes, total	0.14020		mg/kg			93.5			

Qualifier

Explanation

H1	Sample received outside of regulatory holding time.
H2	Sample analyzed outside of regulatory holding time due to a laboratory error.
P1	Sample received outside temperature requirements, 0-6°C.
P2	Sample received unpreserved.
P3	Broken or leaking sample container.
P4	Sample improperly collected
P5	Sample incorrectly preserved
B1	Blank failed high, indicating possible high bias in sample results.
B2	Blank failed low, indicating possible low bias in sample results.
MS	Matrix Spike / Matrix Spike Duplicate recovery and/or RPD limit exceeded, indicating potential matrix interference.
D1	Duplicate RPD limit exceeded due to low sample concentration.
D2	Duplicate RPD limit exceeded due to matrix interference.
S	Surrogate recovery failed, indicating potential matrix interference.
RL1	Reporting limits raised due to matrix interference.
RL2	Reporting limits raised due to limited sample.
U	Sample result less than method detection limit.
J	Sample result less than reporting limit but higher than method detection limit.
E	Electronic loss or corruption of data.
I	Subcontracted sample