

Test Report



August 8, 2022

Client: Absaroka Energy & Environmental Solutions, LLC

Project: CIT.CO.0620.MPU.PW Flow Line Leak

Lab ID: 7094

Date Samples Received: 7/25/2022

Sample Condition: The samples arrived intact and in appropriate sample containers.
The samples were received within the temperature range specified in the test method(s) and/or with thermal preservation in process.

Comments: The test items listed immediately below were analyzed by another laboratory. A separate report with those results will follow upon completion.

Analysis of:
Total Arsenic & Selenium

Performed By:
McC Campbell Analytical, Inc-Pittsburg CA

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

A handwritten signature in black ink, appearing to read "Chris Dieken".

Chris Dieken
QA Manager

A handwritten signature in black ink, appearing to read "Todd Rhea".

Todd Rhea
Lab Manager

eAnalytics Laboratory


4130 Clydesdale Parkway Loveland CO 80538

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody Form

			4130 Clydesdale Parkway Loveland CO 80538 (970) 667-6975 www.eAnalyticsLab.com															
Client Information (New Clients please fill out completely)			Analysis Information (Select analysis by checking box on corresponding sample line)															
Company: Absaroka Solutions			Number of Containers Matrix: (S) Soil (W) Water (V) Vapor (A) Air BTEX / MTBE / TVPH (EPA8260) BTEX / TVPH (EPA8260) TEPH (EPA8015) Volatiles - Full List (EPA8260) PAHs (EPA8270) Dissolved RCRA-8 Metals (EPA6010/7470/7471) Total RCRA-8 Metals (EPA6010/7470/7471) TCLP RCRA-8 Metals (EPA1311/6010/7470/7471) Vapor - Soil Vapor BTEX (EPA10-15) Vapor - Emissions BTEX/TVPH (EPA10-15) Air (Summa) - BTEX (EPA10-15 SIM) pH/TSS/TDS	915 Suite EC, SAR, Arsenic, Boron HPC-Aerobic Plate Count HPC-Anaerobic Plate Count														
Project: CIT-CO-0620-MPE. PW Flow line leak																		
Send Report & Invoice To: Ben Sharp, Ken Rogowski																		
Sampler: Michelle Henry																		
Phone/Email: 307.299.5950																		
Address: 112 High St Buffalo WY 82834																		
Lab ID	Sample Name	Sampling Date																
1	BG-SS-02 @2'	7/20/0959																
2	BG-SS-03 @2'	0942																
3	SS-06 @2'	0926																
4	SS-07 @1'	0805																
5	SS-08 @2'	0827																
6	SS-09 @2'	0848																
7	SS-10 @3'	0917																
Comments:																		
Turnaround Time (Business Days) <input checked="" type="checkbox"/> Standard (5-10 Days) <input type="checkbox"/> 3 Day (1.5X) <input type="checkbox"/> 1-2 Day (2X) <input type="checkbox"/> Same Day (3X)			Record of Custody Relinquished by: <i>[Signature]</i> Date: 7/25/22 Company: Absaroka Solutions Time: 11:00 AM Received by: _____ Date: _____ Company: _____ Time: _____															
For eAnalytics Use Sample Conditions Upon Arrival Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No *On Ice? <input checked="" type="radio"/> Yes <input type="radio"/> No <small>*Or with thermal preservation in process</small>			Relinquished by: _____ Date: _____ Company: _____ Time: _____ Received by: <i>[Signature]</i> Date: 7-25-22 Company: eAnalytics Laboratory Time: 11:00 AM															

Lab ID #

7094

 eAnalytics Laboratory
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 (970) 667-6975

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 4130 Clydesdale Parkway Loveland CO 80538



Client: Absaroka Energy & Environmental Solutions, LLC Lab ID: 7094

Project: CIT.CO.0620.MPU.PW Flow Line Leak

Analysis: BTEX/Select Volatile Cmpds/TPH-TVPH (C6-C10) Method: EPA8260

Sample Name	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	TPH- TVPH	1,2,4- Trimethyl- benzene	1,3,5- Trimethyl- benzene	Date Sampled	Date Analyzed	Lab ID
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
SS-06 @ 2'	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	07/20/22	07/28/22	7094 3
SS-07 @ 1'	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	07/20/22	07/28/22	7094 4
SS-08 @ 2'	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	07/20/22	07/28/22	7094 5
SS-09 @ 2'	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	07/20/22	07/28/22	7094 6
SS-10 @ 3'	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	07/20/22	07/28/22	7094 7



Client: Absaroka Energy & Environmental Solutions, LLC Lab ID: 7094

Project: CIT.CO.0620.MPU.PW Flow Line Leak

Analysis: TPH-TEPH (C10-C28) Method: EPA8015

Sample Name	TPH-TEPH mg/kg	Date Sampled	Date Analyzed	Lab ID
SS-06 @ 2'	<50.0	07/20/22	08/03/22	7094 3
SS-07 @ 1'	<50.0	07/20/22	08/03/22	7094 4
SS-08 @ 2'	<50.0	07/20/22	08/03/22	7094 5
SS-09 @ 2'	<50.0	07/20/22	08/03/22	7094 6
SS-10 @ 3'	<50.0	07/20/22	08/03/22	7094 7



Client: Absaroka Energy & Environmental Solutions, LLC Lab ID: 7094

Project: CIT.CO.0620.MPU.PW Flow Line Leak

Analysis: TPH-ORO (C28-C36) Method: EPA8015

Sample Name	TPH-ORO mg/kg	Date Sampled	Date Analyzed	Lab ID
SS-06 @ 2'	<50.0	07/20/22	08/04/22	7094 3
SS-07 @ 1'	<50.0	07/20/22	08/04/22	7094 4
SS-08 @ 2'	<50.0	07/20/22	08/04/22	7094 5
SS-09 @ 2'	<50.0	07/20/22	08/04/22	7094 6
SS-10 @ 3'	<50.0	07/20/22	08/04/22	7094 7



Client: Absaroka Energy & Environmental Solutions, LLC Lab ID: 7094

Project: CIT.CO.0620.MPU.PW Flow Line Leak

Analysis: Electrical Conductivity-Soil Method: USDA 60 (3)m
pH-Soil EPA9045D/USDA 60

Sample Name	EC (mS/cm) mmhos/cm	pH	Date Sampled	Date Analyzed	Lab ID
BG-SS-02 @ 2'	0.432		07/20/22	07/29/22	7094 1
BG-SS-03 @ 2'	2.64		07/20/22	07/29/22	7094 2
SS-06 @ 2'	26.3	7.1	07/20/22	07/29/22	7094 3
SS-07 @ 1'	0.436	8.0	07/20/22	07/29/22	7094 4
SS-08 @ 2'	24.9	7.7	07/20/22	07/29/22	7094 5
SS-09 @ 2'	13.4	7.5	07/20/22	07/29/22	7094 6
SS-10 @ 3'	17.6	7.6	07/20/22	07/29/22	7094 7



Client: Absaroka Energy & Environmental Solutions, LLC Lab ID: 7094

Project: CIT.CO.0620.MPU.PW Flow Line Leak

Analysis: Sodium Adsorption Ratio Method: USDA 60 (20B)m

Sample Name	SAR	Date Sampled	Date Analyzed	Lab ID
BG-SS-02 @ 2'	5.47	07/20/22	08/03/22	7094 1
BG-SS-03 @ 2'	31.3	07/20/22	08/03/22	7094 2
SS-06 @ 2'	22.5	07/20/22	08/03/22	7094 3
SS-07 @ 1'	1.17	07/20/22	08/03/22	7094 4
SS-08 @ 2'	34.2	07/20/22	08/03/22	7094 5
SS-09 @ 2'	10.2	07/20/22	08/03/22	7094 6
SS-10 @ 3'	56.4	07/20/22	08/03/22	7094 7

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Client: Absaroka Energy & Environmental Solutions, LLC Lab ID: 7094

Project: CIT.CO.0620.MPU.PW Flow Line Leak

Analysis: Table 915 Metals Method: EPA6010

Sample Name	Ba - Barium mg/kg	B - Boron (HWS) mg/L	Cd - Cadmium mg/kg	Cu - Copper mg/kg	Pb - Lead mg/kg	Ni - Nickel mg/kg	Zn - Zinc mg/kg	Ag-Silver mg/kg	Date Sampled	Date Analyzed	Lab ID
BG-SS-02 @ 2'		<2.0							07/20/22	08/03/22	7094 1
BG-SS-03 @ 2'		<2.0							07/20/22	08/03/22	7094 2
SS-06 @ 2'	10.7	<2.0	<1.0	2.41	4.76	5.04	7.09	<5.0	07/20/22	08/03/22	7094 3
SS-07 @ 1'	78.9	<2.0	<1.0	2.39	3.42	3.70	4.39	<5.0	07/20/22	08/03/22	7094 4
SS-08 @ 2'	2.59	7.04	<1.0	1.16	3.46	3.09	3.00	<5.0	07/20/22	08/03/22	7094 5
SS-09 @ 2'	5.26	<2.0	<1.0	1.86	3.65	4.68	4.68	<5.0	07/20/22	08/03/22	7094 6
SS-10 @ 3'	12.8	3.61	<1.0	2.33	6.34	6.83	8.13	<5.0	07/20/22	08/03/22	7094 7

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Client: Absaroka Energy & Environmental Solutions, LLC Lab ID: 7094

Project: CIT.CO.0620.MPU.PW Flow Line Leak

Analysis: Table 915 - Hexavalent Chromium (Cr VI) Method: SM 3500-Cr B

Sample Name	Cr VI- Hex Chromium mg/kg	Date Sampled	Date Analyzed	Lab ID
BG-SS-02 @ 2'		07/20/22	07/29/22	7094 1
BG-SS-03 @ 2'		07/20/22	07/29/22	7094 2
SS-06 @ 2'	<0.30	07/20/22	07/29/22	7094 3
SS-07 @ 1'	<0.30	07/20/22	07/29/22	7094 4
SS-08 @ 2'	<0.30	07/20/22	07/29/22	7094 5
SS-09 @ 2'	<0.30	07/20/22	07/29/22	7094 6
SS-10 @ 3'	<0.30	07/20/22	07/29/22	7094 7

eANALYTICS

LABORATORY

Client:	Absaroka Energy & Environmental Solutions, LLC	Sample Name:	SS-06 @ 2'
Project:	CIT.CO.0620.MPU.PW Flow Line Leak	Lab ID:	7094 3
		Date Sampled:	7/20/2022
		Date Extracted:	8/2/2022
		Date Analyzed:	8/5/2022
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	132	2-Fluorobiphenyl	72
2,4,6 Tribromophenol	104	p-Terphenyl-d14	87

Compound	Result (mg/kg)
1-Methylnaphthalene	<1.5
2-Methylnaphthalene	<1.5
Acenaphthene	<1.5
Anthracene	<1.5
Benzo(a)-anthracene	<1.0
Benzo(a)-pyrene	<0.11
Benzo(b)-fluoranthene	<1.0
Benzo(k)-fluoranthene	<1.5
Chrysene	<1.5
Dibenzo(a,h)-anthracene	<0.10
Fluoranthene	<1.5
Fluorene	<1.5
Indeno(1,2,3-C,D)-pyrene	<1.0
Pyrene	<1.5
Naphthalene	<1.0

eANALYTICS

LABORATORY

Client:	Absaroka Energy & Environmental Solutions, LLC	Sample Name:	SS-07 @ 1'
Project:	CIT.CO.0620.MPU.PW Flow Line Leak	Lab ID:	7094 4
		Date Sampled:	7/20/2022
		Date Extracted:	8/2/2022
		Date Analyzed:	8/5/2022
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	142	2-Fluorobiphenyl	75
2,4,6 Tribromophenol	80	p-Terphenyl-d14	91

Compound	Result (mg/kg)
1-Methylnaphthalene	<1.5
2-Methylnaphthalene	<1.5
Acenaphthene	<1.5
Anthracene	<1.5
Benzo(a)-anthracene	<1.0
Benzo(a)-pyrene	<0.11
Benzo(b)-fluoranthene	<1.0
Benzo(k)-fluoranthene	<1.5
Chrysene	<1.5
Dibenzo(a,h)-anthracene	<0.10
Fluoranthene	<1.5
Fluorene	<1.5
Indeno(1,2,3-C,D)-pyrene	<1.0
Pyrene	<1.5
Naphthalene	<1.0

eANALYTICS

LABORATORY

Client:	Absaroka Energy & Environmental Solutions, LLC	Sample Name:	SS-08 @ 2'
Project:	CIT.CO.0620.MPU.PW Flow Line Leak	Lab ID:	7094 5
		Date Sampled:	7/20/2022
		Date Extracted:	8/2/2022
		Date Analyzed:	8/5/2022
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	135	2-Fluorobiphenyl	73
2,4,6 Tribromophenol	50	p-Terphenyl-d14	84

Compound	Result (mg/kg)
1-Methylnaphthalene	<1.5
2-Methylnaphthalene	<1.5
Acenaphthene	<1.5
Anthracene	<1.5
Benzo(a)-anthracene	<1.0
Benzo(a)-pyrene	<0.11
Benzo(b)-fluoranthene	<1.0
Benzo(k)-fluoranthene	<1.5
Chrysene	<1.5
Dibenzo(a,h)-anthracene	<0.10
Fluoranthene	<1.5
Fluorene	<1.5
Indeno(1,2,3-C,D)-pyrene	<1.0
Pyrene	<1.5
Naphthalene	<1.0

eANALYTICS

LABORATORY

Client:	Absaroka Energy & Environmental Solutions, LLC	Sample Name:	SS-09 @ 2'
Project:	CIT.CO.0620.MPU.PW Flow Line Leak	Lab ID:	7094 6
		Date Sampled:	7/20/2022
		Date Extracted:	8/2/2022
		Date Analyzed:	8/5/2022
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	137	2-Fluorobiphenyl	70
2,4,6 Tribromophenol	91	p-Terphenyl-d14	84

Compound	Result (mg/kg)
1-Methylnaphthalene	<1.5
2-Methylnaphthalene	<1.5
Acenaphthene	<1.5
Anthracene	<1.5
Benzo(a)-anthracene	<1.0
Benzo(a)-pyrene	<0.11
Benzo(b)-fluoranthene	<1.0
Benzo(k)-fluoranthene	<1.5
Chrysene	<1.5
Dibenzo(a,h)-anthracene	<0.10
Fluoranthene	<1.5
Fluorene	<1.5
Indeno(1,2,3-C,D)-pyrene	<1.0
Pyrene	<1.5
Naphthalene	<1.0

eANALYTICS

LABORATORY

Client:	Absaroka Energy & Environmental Solutions, LLC	Sample Name:	SS-10 @ 3'
Project:	CIT.CO.0620.MPU.PW Flow Line Leak	Lab ID:	7094 7
		Date Sampled:	7/20/2022
		Date Extracted:	8/2/2022
		Date Analyzed:	8/5/2022
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	167	2-Fluorobiphenyl	84
2,4,6 Tribromophenol	79	p-Terphenyl-d14	102

Compound	Result (mg/kg)
1-Methylnaphthalene	<1.5
2-Methylnaphthalene	<1.5
Acenaphthene	<1.5
Anthracene	<1.5
Benzo(a)-anthracene	<1.0
Benzo(a)-pyrene	<0.11
Benzo(b)-fluoranthene	<1.0
Benzo(k)-fluoranthene	<1.5
Chrysene	<1.5
Dibenzo(a,h)-anthracene	<0.10
Fluoranthene	<1.5
Fluorene	<1.5
Indeno(1,2,3-C,D)-pyrene	<1.0
Pyrene	<1.5
Naphthalene	<1.0



Client: Absaroka Energy & Environmental Solutions, LLC Lab ID: 7094
Project: CIT.CO.0620.MPU.PW Flow Line Leak Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SS-06 @ 2'	104	112	102	101	07/20/22	07/28/22	7094 3
SS-07 @ 1'	104	113	104	101	07/20/22	07/28/22	7094 4
SS-08 @ 2'	105	111	101	101	07/20/22	07/28/22	7094 5
SS-09 @ 2'	102	107	101	101	07/20/22	07/28/22	7094 6
SS-10 @ 3'	104	111	102	102	07/20/22	07/28/22	7094 7

eANALYTICS

LABORATORY

Client: Absaroka Energy & Environmental Solutions, LLC Lab ID: 7094

Project: CIT.CO.0620.MPU.PW Flow Line Leak

Soil		Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TPH-TVPH	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	QC Start Date
Method Blank		<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Lab Control Sample	70%-130%	99	94	91	89	97	87	87	07/28/22

Soil		TPH-TEPH	QC Start Date
Method Blank		<50.0	
		mg/kg	
Lab Control Sample	70%-130%	77	08/03/22

Soil		TPH-ORO	QC Start Date
Method Blank		<50.0	
		mg/kg	
Lab Control Sample	70%-130%	81	08/04/22



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2208185

Report Created for: eAnalytics Laboratory

4130 Clydesdale Parkway
Loveland, CO 80538

Project Contact: Chris Dieken

Project P.O.:

Project: CIT.CO.0620.MPU; PW Flow Line Leak

Project Received: 08/02/2022

Analytical Report reviewed & approved for release on 08/09/2022 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.





Glossary of Terms & Qualifier Definitions

Client: eAnalytics Laboratory

WorkOrder: 2208185

Project: CIT.CO.0620.MPU; PW Flow Line Leak

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: eAnalytics Laboratory
Date Received: 08/02/2022 14:12
Date Prepared: 08/04/2022
Project: CIT.CO.0620.MPU; PW Flow Line Leak

WorkOrder: 2208185
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Arsenic

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BG-SS-02@2' (7094-1)	2208185-001A	Soil	07/20/2022 09:59	ICP-MS5 203SMPL.d	251002

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Arsenic	ND	0.50	1	08/05/2022 16:19

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Terbium	102	70-130	08/05/2022 16:19

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
BG-SS-03@2' (7094.2)	2208185-002A	Soil	07/20/2022 09:42	ICP-MS5 202SMPL.d	251002

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Arsenic	0.65	0.50	1	08/05/2022 16:15

<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Terbium	105	70-130	08/05/2022 16:15

Analyst(s): MIG



Analytical Report

Client: eAnalytics Laboratory
Date Received: 08/02/2022 14:12
Date Prepared: 08/04/2022
Project: CIT.CO.0620.MPU; PW Flow Line Leak

WorkOrder: 2208185
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-06@2' (7094-3)	2208185-003A	Soil	07/20/2022 09:26	ICP-MS5 164SMPL.d	251002

Analytes	Result	RL	DF	Date Analyzed
Arsenic	4.5	0.50	1	08/05/2022 14:03
Selenium	1.1	0.50	1	08/05/2022 14:03

Surrogates	REC (%)	Limits	
Terbium	98	70-130	08/05/2022 14:03

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-07@1' (7094-4)	2208185-004A	Soil	07/20/2022 08:05	ICP-MS5 165SMPL.d	251002

Analytes	Result	RL	DF	Date Analyzed
Arsenic	3.8	0.50	1	08/05/2022 14:07
Selenium	1.2	0.50	1	08/05/2022 14:07

Surrogates	REC (%)	Limits	
Terbium	111	70-130	08/05/2022 14:07

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-08@2' (7094-5)	2208185-005A	Soil	07/20/2022 08:27	ICP-MS5 204SMPL.d	251002

Analytes	Result	RL	DF	Date Analyzed
Arsenic	1.3	0.50	1	08/05/2022 16:22
Selenium	ND	0.50	1	08/05/2022 16:22

Surrogates	REC (%)	Limits	
Terbium	104	70-130	08/05/2022 16:22

Analyst(s): MIG

(Cont.)



Analytical Report

Client: eAnalytics Laboratory
Date Received: 08/02/2022 14:12
Date Prepared: 08/04/2022
Project: CIT.CO.0620.MPU; PW Flow Line Leak

WorkOrder: 2208185
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-09@3' (7094-6)	2208185-006A	Soil	07/20/2022 08:48	ICP-MS5 168SMPL.d	251002

Analytes	Result	RL	DF	Date Analyzed
Arsenic	2.4	0.50	1	08/05/2022 14:17
Selenium	0.59	0.50	1	08/05/2022 14:17

Surrogates	REC (%)	Limits	
Terbium	107	70-130	08/05/2022 14:17

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SS-10@3' (7094-7)	2208185-007A	Soil	07/20/2022 09:17	ICP-MS5 205SMPL.d	251002

Analytes	Result	RL	DF	Date Analyzed
Arsenic	0.52	0.50	1	08/05/2022 16:26
Selenium	ND	0.50	1	08/05/2022 16:26

Surrogates	REC (%)	Limits	
Terbium	104	70-130	08/05/2022 16:26

Analyst(s): MIG



Quality Control Report

Client:	eAnalytics Laboratory	WorkOrder:	2208185
Date Prepared:	08/04/2022	BatchID:	251002
Date Analyzed:	08/04/2022	Extraction Method:	SW3050B
Instrument:	ICP-MS4, ICP-MS5	Analytical Method:	SW6020
Matrix:	Soil	Unit:	mg/kg
Project:	CIT.CO.0620.MPU; PW Flow Line Leak	Sample ID:	MB/LCS/LCSD-251002

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.14	0.50	-	-	-
Selenium	ND	0.32	0.50	-	-	-
Surrogate Recovery						
Terbium	540			500	109	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	53	52	50	106	103	75-125	2.28	20
Selenium	51	52	50	103	104	75-125	0.684	20
Surrogate Recovery								
Terbium	530	550	500	106	109	70-130	2.59	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2208185

ClientCode: EACO

☐ WaterTrax☐ CLIP☐ EDF☐ EQuIS☐ Dry-Weight☐ Email☐ HardCopy☐ ThirdParty☐ J-flag☐ Detection Summary☐ Excel

Report to:

Chris Dieken
eAnalytics Laboratory
4130 Clydesdale Parkway
Loveland, CO 80538
970-667-6975 FAX:

Email: cdieken@eanalyticslab.com; trhea@eanaly
cc/3rd Party: TRHEA@eanalyticslab.com;
PO:
Project: CIT.CO.0620.MPU; PW Flower Line Leak

Bill to:

Chris Dieken
eAnalytics Laboratory
4130 Clydesdale Parkway
Loveland, CO 80538
cdieken@eanalyticslab.com

Requested TAT: 5 days;

Date Received: 08/02/2022

Date Logged: 08/03/2022

Lab ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2208185-001	BG-SS-02@2' (7094-1)	Soil	7/20/2022 09:59	<input type="checkbox"/>	A		A									
2208185-002	BG-SS-03@2' (7094.2)	Soil	7/20/2022 09:42	<input type="checkbox"/>	A		A									
2208185-003	SS-06@2' (7094-3)	Soil	7/20/2022 09:26	<input type="checkbox"/>		A	A									
2208185-004	SS-07@1' (7094-4)	Soil	7/20/2022 08:05	<input type="checkbox"/>		A	A									
2208185-005	SS-08@2' (7094-5)	Soil	7/20/2022 08:27	<input type="checkbox"/>		A	A									
2208185-006	SS-09@3' (7094-6)	Soil	7/20/2022 08:48	<input type="checkbox"/>		A	A									
2208185-007	SS-10@3' (7094-7)	Soil	7/20/2022 09:17	<input type="checkbox"/>		A	A									

Test Legend:

1	ASMS_6020_TTLC_S
5	
9	

2	METALSMS_TTLC_S
6	
10	

3	PRDisposal Fee
7	
11	

4	
8	
12	

Project Manager: Rosa Venegas

Prepared by: Adrianna Cardoza

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: EANALYTICS LABORATORY

Project: CIT.CO.0620.MPU; PW Flower Line Leak

Work Order: 2208185

Client Contact: Chris Dieken

QC Level: LEVEL 2

Contact's Email: cdieken@eanalyticlab.com; trhea@eanalyticlab.com

Comments:

Date Logged: 8/3/2022

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQUIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	BG-SS-02@2' (7094-1)	Soil	SW6020 (Arsenic)	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/20/2022 9:59	5 days	8/9/2022		<input type="checkbox"/>	<input type="checkbox"/>
002A	BG-SS-03@2' (7094.2)	Soil	SW6020 (Arsenic)	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/20/2022 9:42	5 days	8/9/2022		<input type="checkbox"/>	<input type="checkbox"/>
003A	SS-06@2' (7094-3)	Soil	SW6020 (Metals) <Arsenic, Selenium>	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/20/2022 9:26	5 days	8/9/2022		<input type="checkbox"/>	<input type="checkbox"/>
004A	SS-07@1' (7094-4)	Soil	SW6020 (Metals) <Arsenic, Selenium>	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/20/2022 8:05	5 days	8/9/2022		<input type="checkbox"/>	<input type="checkbox"/>
005A	SS-08@2' (7094-5)	Soil	SW6020 (Metals) <Arsenic, Selenium>	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/20/2022 8:27	5 days	8/9/2022		<input type="checkbox"/>	<input type="checkbox"/>
006A	SS-09@3' (7094-6)	Soil	SW6020 (Metals) <Arsenic, Selenium>	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/20/2022 8:48	5 days	8/9/2022		<input type="checkbox"/>	<input type="checkbox"/>
007A	SS-10@3' (7094-7)	Soil	SW6020 (Metals) <Arsenic, Selenium>	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/20/2022 9:17	5 days	8/9/2022		<input type="checkbox"/>	<input type="checkbox"/>

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
Preservative Code: 1=4°C 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=ZnOAc/NaOH 7=None



Sample Receipt Checklist

Client Name: **eAnalytics Laboratory**
Project: **CIT.CO.0620.MPU; PW Flower Line Leak**

Date and Time Received: **8/2/2022 14:12**

Date Logged: **8/3/2022**

Received by: **Adrianna Cardoza**

Logged by: **Adrianna Cardoza**

WorkOrder No: **2208185**

Matrix: Soil

Carrier: FedEx

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 1.5°C	NA <input type="checkbox"/>
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments: