



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2108360

Report Created for: eAnalytics Laboratory
4130 Clydesdale Parkway
Loveland, CO 80538

Project Contact: Chris Dieken
Project P.O.:
Project: PN20 Soil Samples

Project Received: 08/09/2021

Analytical Report reviewed & approved for release on 08/10/2021 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

Project: PN20 Soil Samples

WorkOrder: 2108360

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
N/A	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: 08/09/2021 10:14
Date Prepared: 08/09/2021
Project: PN20 Soil Samples

WorkOrder: 2108360
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Arsenic

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sam. #1 Background (4526-1)	2108360-001A	Soil	08/03/2021 16:00	ICP-MS5 122SMPL.d	227194

Analytes	Result	RL	DF	Date Analyzed
Arsenic	9.6	0.50	1	08/10/2021 10:49

Surrogates	REC (%)	Limits
Terbium	106	70-130

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sam. #2 SW Wall 8' (4526-2)	2108360-002A	Soil	08/03/2021 16:00	ICP-MS5 123SMPL.d	227194

Analytes	Result	RL	DF	Date Analyzed
Arsenic	7.8	0.50	1	08/10/2021 10:52

Surrogates	REC (%)	Limits
Terbium	104	70-130

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sam. #3 NW Wall 8' (4526-3)	2108360-003A	Soil	08/03/2021 16:00	ICP-MS5 124SMPL.d	227194

Analytes	Result	RL	DF	Date Analyzed
Arsenic	7.0	0.50	1	08/10/2021 10:56

Surrogates	REC (%)	Limits
Terbium	105	70-130

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sam. #4 SE Wall 8' (4526-4)	2108360-004A	Soil	08/03/2021 16:00	ICP-MS5 125SMPL.d	227194

Analytes	Result	RL	DF	Date Analyzed
Arsenic	7.7	0.50	1	08/10/2021 10:59

Surrogates	REC (%)	Limits
Terbium	107	70-130

Analyst(s): AL

(Cont.)



Analytical Report

Client: eAnalytics Laboratory
Date Received: 08/09/2021 10:14
Date Prepared: 08/09/2021
Project: PN20 Soil Samples

WorkOrder: 2108360
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Arsenic

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sam. #5 NE Wall 8' (4526-5)	2108360-005A	Soil	08/03/2021 16:00	ICP-MS5 126SMPL.d	227194

Analytes	Result	RL	DF	Date Analyzed
Arsenic	6.7	0.50	1	08/10/2021 11:02

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	103	70-130	08/10/2021 11:02

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Sam. #6 Center Floor 8.5' (4526-6)	2108360-006A	Soil	08/03/2021 16:00	ICP-MS5 127SMPL.d	227194

Analytes	Result	RL	DF	Date Analyzed
Arsenic	7.7	0.50	1	08/10/2021 11:06

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	104	70-130	08/10/2021 11:06

Analyst(s): AL



Quality Control Report

Client: eAnalytics Laboratory
Date Prepared: 08/09/2021
Date Analyzed: 08/10/2021
Instrument: ICP-MS5
Matrix: Soil
Project: PN20 Soil Samples

WorkOrder: 2108360
BatchID: 227194
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/kg
Sample ID: MB/LCS/LCSD-227194

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.150	0.500	-	-	-
Surrogate Recovery						
Terbium	519			500	104	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	50.4	51.9	50	101	104	75-125	3.00	20
Surrogate Recovery								
Terbium	530	540	500	106	108	70-130	1.89	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2108360

ClientCode: EACO

- WaterTrax
 WriteOn
 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@eanalyticlab.com; trhea@eanaly
cc/3rd Party: trhea@eanalyticlab.com;
PO:
Project: PN20 Soil Samples

Bill to:
Chris Dieken
eAnalytics Laboratory
4130 Clydesdale Parkway
Loveland, CO 80538
cdieken@eanalyticlab.com

Requested TAT: 1 day;

Date Received: 08/09/2021
Date Logged: 08/09/2021

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
2108360-001	Sam. #1 Background (4526-1)	Soil	8/3/2021 16:00	<input type="checkbox"/>	A	A											
2108360-002	Sam. #2 SW Wall 8' (4526-2)	Soil	8/3/2021 16:00	<input type="checkbox"/>	A	A											
2108360-003	Sam. #3 NW Wall 8' (4526-3)	Soil	8/3/2021 16:00	<input type="checkbox"/>	A	A											
2108360-004	Sam. #4 SE Wall 8' (4526-4)	Soil	8/3/2021 16:00	<input type="checkbox"/>	A	A											
2108360-005	Sam. #5 NE Wall 8' (4526-5)	Soil	8/3/2021 16:00	<input type="checkbox"/>	A	A											
2108360-006	Sam. #6 Center Floor 8.5' (4526-6)	Soil	8/3/2021 16:00	<input type="checkbox"/>	A	A											

Test Legend:

1	ASMS_6020_TTLC_S	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Rosa Venegas

Prepared by: Agustina Venegas

Comments:

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



WORK ORDER SUMMARY

Client Name: EANALYTICS LABORATORY

Project: PN20 Soil Samples

Work Order: 2108360

Client Contact: Chris Dieken

QC Level: LEVEL 2

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

Comments:

Date Logged: 8/9/2021

WaterTrax WriteOn EDF Excel EQUIS Email HardCopy ThirdParty J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	SubOut
001A	Sam. #1 Background (4526-1)	Soil	SW6020 (Arsenic)	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	8/3/2021 16:00	1 day	8/10/2021		<input type="checkbox"/>	
002A	Sam. #2 SW Wall 8' (4526-2)	Soil	SW6020 (Arsenic)	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	8/3/2021 16:00	1 day	8/10/2021		<input type="checkbox"/>	
003A	Sam. #3 NW Wall 8' (4526-3)	Soil	SW6020 (Arsenic)	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	8/3/2021 16:00	1 day	8/10/2021		<input type="checkbox"/>	
004A	Sam. #4 SE Wall 8' (4526-4)	Soil	SW6020 (Arsenic)	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	8/3/2021 16:00	1 day	8/10/2021		<input type="checkbox"/>	
005A	Sam. #5 NE Wall 8' (4526-5)	Soil	SW6020 (Arsenic)	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	8/3/2021 16:00	1 day	8/10/2021		<input type="checkbox"/>	
006A	Sam. #6 Center Floor 8.5' (4526-6)	Soil	SW6020 (Arsenic)	1	4OZ GJ, Unpres	<input type="checkbox"/>	<input type="checkbox"/>	8/3/2021 16:00	1 day	8/10/2021		<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).

- 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.

RUSH

KUM

2108360

	McCAMPBELL ANALYTICAL, INC.		CHAIN OF CUSTODY RECORD											
	1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701		Turn Around Time: 1 Day Rush <input checked="" type="checkbox"/> 2 Day Rush <input type="checkbox"/> 3 Day Rush <input checked="" type="checkbox"/> STD <input type="checkbox"/>			Quote #								
	Telephone: (877) 252-9262 / Fax: (925) 252-9269		J-Flag / MDL <input type="checkbox"/> ISL <input type="checkbox"/> Cleanup Approved <input type="checkbox"/>			Bottle Order #								
	www.mccampbell.com main@mccampbell.com		Delivery Format: PDF <input type="checkbox"/> GeoTracker EDF <input type="checkbox"/> EDD <input type="checkbox"/>			Write On (DW) <input type="checkbox"/>			EQulS <input type="checkbox"/>					

Report To: eAnalytics Lab Bill To: cdieken@eanalyticslab.com

Company: eAnalytics Lab

Email: cdieken@eanalyticslab.com

Alt Email: rhea@eanalyticslab.com Tele: 970-667-6975

Project Name: *PN20 Jail Samples* Project #:

Project Location: PO #

Sampler Signature:

Analysis Requested

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	Analysis Requested																	
	Date	Time																					
<i>Jam. #1 Background (4526-1)</i>	<i>8/3/21</i>	<i>1600</i>	<i>1</i>	<i>Jail</i>	<i>N/A</i>																		
<i>Jam. #2 SW Wall 8' (4526-2)</i>																							
<i>Jam. #3 NW Wall 8' (4526-3)</i>																							
<i>Jam. #4 SE Wall 8' (4526-4)</i>																							
<i>Jam. #5 NE Wall 8' (4526-5)</i>																							
<i>Jam. #6 Center Floor 8.5' (4526-6)</i>																							

Total Arsenic

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name			Date	Time	Received By / Company Name			Date	Time	Comments / Instructions
<i>Morgan Kay eAnalytics Laboratory</i>			<i>8/5/21</i>	<i>2:15 PM</i>	<i>[Signature]</i>			<i>8/9/2021</i>	<i>10:14 A</i>	

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

Temp *23.4* °C Initials _____
wfx

FEDEX: 774463147979 *TAT CHANGED PER EMAIL



Sample Receipt Checklist

Client Name: **eAnalytics Laboratory**
 Project: **PN20 Soil Samples**

Date and Time Received: **8/9/2021 10:14**
 Date Logged: **8/9/2021**

WorkOrder No: **2108360** Matrix: Soil
 Carrier: FedEx

Received by: **Agustina Venegas**
 Logged by: **Agustina Venegas**

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 type="checkbox"/> | No <input checked="" 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 type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" 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: OTHERS)

- | | | | |
|--|---|-----------------------------|--|
| Sample/Temp Blank temperature | | Temp: 23.6°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 (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Test Report



August 10, 2021

Client: Aspen Environmental Field Services

Project: Summit Midstream / PN20 Soil Samples

Lab ID: 4526

Date Samples Received: 8/5/2021

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: Selenium was analyzed on 8/10/2021. 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

Performed By:
McC Campbell Analytical, Inc-Pittsburg CA

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

Handwritten signature of Chris Dieken in black ink.

Chris Dieken
QA Manager

Handwritten signature of Todd Rhea in black ink.

Todd Rhea
Lab Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: Aspen Environmental Field Services Lab ID: 4526
 Project: Summit Midstream / PN20 Soil Samples
 Analysis: BTEX/Select Volatile Cmpds/TPH-TVPH (C6-C10) Method: EPA8260

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl- Benzene mg/kg	Total Xylenes mg/kg	TPH- TVPH mg/kg	1,2,4- Trimethyl- benzene mg/kg	1,3,5- Trimethyl- benzene mg/kg	Date Sampled	Date Analyzed	Lab ID
Sample #1 Background	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	08/03/21	08/05/21	4526 1
Sample #2 Southwest Wall - 8 Feet	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	08/03/21	08/05/21	4526 2
Sample #3 Northwest Wall - 8 Feet	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	08/03/21	08/05/21	4526 3
Sample #4 Southeast Wall - 8 Feet	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	08/03/21	08/05/21	4526 4
Sample #5 Northeast Wall - 8 Feet	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	08/03/21	08/05/21	4526 5
Sample #6 Center Floor - 8.5 Feet	<0.050	<0.050	<0.050	<0.050	<50.0	<0.050	<0.050	08/03/21	08/05/21	4526 6



Client: Aspen Environmental Field Services Lab ID: 4526
 Project: Summit Midstream / PN20 Soil Samples
 Analysis: Sodium Adsorption Ratio Method: USDA 60 (20B)m

Sample Name	SAR	Date Sampled	Date Analyzed	Lab ID
Sample #1 Background	3.11	08/03/21	08/06/21	4526 1
Sample #2 Southwest Wall - 8 Feet	8.14	08/03/21	08/06/21	4526 2
Sample #3 Northwest Wall - 8 Feet	1.35	08/03/21	08/06/21	4526 3
Sample #4 Southeast Wall - 8 Feet	5.61	08/03/21	08/06/21	4526 4
Sample #5 Northeast Wall - 8 Feet	15.1	08/03/21	08/06/21	4526 5
Sample #6 Center Floor - 8.5 Feet	12.4	08/03/21	08/06/21	4526 6



Client: Aspen Environmental Field Services Lab ID: 4526
 Project: Summit Midstream / PN20 Soil Samples
 Analysis: Table 915 Metals Method: EPA6010

Sample Name	Se-Selenium mg/kg	Ag-Silver mg/kg	Date Sampled	Date Analyzed	Lab ID
Sample #1 Background	<5.0	<5.0	08/03/21	08/06/21	4526 1
Sample #2 Southwest Wall - 8 Feet	<5.0	<5.0	08/03/21	08/06/21	4526 2
Sample #3 Northwest Wall - 8 Feet	<5.0	<5.0	08/03/21	08/06/21	4526 3
Sample #4 Southeast Wall - 8 Feet	<5.0	<5.0	08/03/21	08/06/21	4526 4
Sample #5 Northeast Wall - 8 Feet	<5.0	<5.0	08/03/21	08/06/21	4526 5
Sample #6 Center Floor - 8.5 Feet	<5.0	<5.0	08/03/21	08/06/21	4526 6



eANALYTICS
LABORATORY

Client: Aspen Environmental Field Services Lab ID: 4526

Project: Summit Midstream / PN20 Soil Samples

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
Sample #1 Background	<0.30	08/03/21	08/06/21	4526 1
Sample #2 Southwest Wall - 8 Feet	<0.30	08/03/21	08/06/21	4526 2
Sample #3 Northwest Wall - 8 Feet	<0.30	08/03/21	08/06/21	4526 3
Sample #4 Southeast Wall - 8 Feet	<0.30	08/03/21	08/06/21	4526 4
Sample #5 Northeast Wall - 8 Feet	<0.30	08/03/21	08/06/21	4526 5
Sample #6 Center Floor - 8.5 Feet	<0.30	08/03/21	08/06/21	4526 6

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

eANALYTICS

LABORATORY

Client:	Aspen Environmental Field Services	Sample Name:	Sample #1 Background
Project:	Summit Midstream / PN20 Soil Samples	Lab ID:	4526 1
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Date Sampled:	8/3/2021
		Date Extracted:	8/6/2021
		Date Analyzed:	8/7/2021
		Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	107	2-Fluorobiphenyl	99
2,4,6 Tribromophenol	79	p-Terphenyl-d14	90

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

4130 Clydesdale Parkway Loveland CO 80538

eANALYTICS

LABORATORY

Client:	Aspen Environmental Field Services	Sample Name:	Sample #2 Southwest Wall - 8 Feet
Project:	Summit Midstream / PN20 Soil Samples	Lab ID:	4526 2
		Date Sampled:	8/3/2021
		Date Extracted:	8/6/2021
		Date Analyzed:	8/7/2021
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	112	2-Fluorobiphenyl	98
2,4,6 Tribromophenol	117	p-Terphenyl-d14	90

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

4130 Clydesdale Parkway Loveland CO 80538

eANALYTICS

LABORATORY

Client:	Aspen Environmental Field Services	Sample Name:	Sample #3 Northwest Wall - 8 Feet
Project:	Summit Midstream / PN20 Soil Samples	Lab ID:	4526 3
		Date Sampled:	8/3/2021
		Date Extracted:	8/6/2021
		Date Analyzed:	8/7/2021
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	111	2-Fluorobiphenyl	94
2,4,6 Tribromophenol	115	p-Terphenyl-d14	89

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

4130 Clydesdale Parkway Loveland CO 80538

eANALYTICS
LABORATORY

Client:	Aspen Environmental Field Services	Sample Name:	Sample #4 Southeast Wall - 8 Feet
Project:	Summit Midstream / PN20 Soil Samples	Lab ID:	4526 4
		Date Sampled:	8/3/2021
		Date Extracted:	8/6/2021
		Date Analyzed:	8/7/2021
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	106	2-Fluorobiphenyl	94
2,4,6 Tribromophenol	67	p-Terphenyl-d14	88

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:	Aspen Environmental Field Services	Sample Name:	Sample #5 Northeast Wall - 8 Feet
Project:	Summit Midstream / PN20 Soil Samples	Lab ID:	4526 5
		Date Sampled:	8/3/2021
		Date Extracted:	8/6/2021
		Date Analyzed:	8/7/2021
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	110	2-Fluorobiphenyl	99
2,4,6 Tribromophenol	131	p-Terphenyl-d14	90

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:	Aspen Environmental Field Services	Sample Name:	Sample #6 Center Floor - 8.5 Feet
Project:	Summit Midstream / PN20 Soil Samples	Lab ID:	4526 6
		Date Sampled:	8/3/2021
		Date Extracted:	8/6/2021
Analysis:	PAHs (Polynuclear Aromatic Hydrocarbons)	Date Analyzed:	8/7/2021
		Method:	EPA8270 (SIM)

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	110	2-Fluorobiphenyl	100
2,4,6 Tribromophenol	109	p-Terphenyl-d14	92

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

Quality Control - Surrogate Recoveries



Client: Aspen Environmental Field Services Lab ID: 4526
 Project: Summit Midstream / PN20 Soil Samples 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
Sample #1 Background	95	99	98	84	08/03/21	08/05/21	4526 1
Sample #2 Southwest Wall - 8 Feet	99	99	99	86	08/03/21	08/05/21	4526 2
Sample #3 Northwest Wall - 8 Feet	97	97	98	85	08/03/21	08/05/21	4526 3
Sample #4 Southeast Wall - 8 Feet	99	98	98	83	08/03/21	08/05/21	4526 4
Sample #5 Northeast Wall - 8 Feet	97	100	99	89	08/03/21	08/05/21	4526 5
Sample #6 Center Floor - 8.5 Feet	95	99	97	86	08/03/21	08/05/21	4526 6

eANALYTICS

LABORATORY

Client: Aspen Environmental Field Services

Lab ID: 4526

Project: Summit Midstream / PN20 Soil Samples

Soil		Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TPH-TVPH	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	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%	107	104	103	105	111	102	102	08/05/21

Soil		TPH-TEPH	QC Start Date
Method Blank		<50.0	
		mg/kg	
Lab Control Sample	70%-130%	85	08/05/21

Soil		TPH-ORO	QC Start Date
Method Blank		<50.0	
		mg/kg	
Lab Control Sample	70%-130%	105	08/08/21