

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 09, 2022

Levi Kirk

K.P. Kauffman

1675 Broadway

Denver, CO 80202

RE: Facility #4 AE2

Work Order #2209049

Enclosed are the results of analyses for samples received by Summit Scientific on 09/02/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-7@7"	2209049-01	Soil	09/02/22 10:35	09/02/22 15:00
SW-8@7"	2209049-02	Soil	09/02/22 10:40	09/02/22 15:00

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S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

2209049

Page 1 of 1

Client: K.P. Kauffman Company, Inc

Project Manager: Levi Kirk

Address: 1675 Broadway

E-Mail: Primary Contractor @ msc.com

City/State/Zip: Denver, CO 80202

Phone: 303-825-4822

Project Name: Facility 4 AE2

Sampler Name: HC

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other									
1	SW-7@7'	9-2-22	1035	1			X			X											
2	SW-8@7'	1	1040	1			X			X											
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>9.2.22 1500</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9.2.22 1500</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>X</u> Standard <u>—</u>	
Temperature Upon Receipt: <u>8.9</u>		Corrected Temperature <u>—</u>		Sample Integrity:	
IR gun correction: <u>—</u>		IR gun #: <u>9</u>		Samples Intact: <u>Yes</u> No	
		HNO3 lot #			

S₂

Sample Receipt Checklist

S2 Work Order# 2209049Client: kpk Client Project ID: Facility 4 AEZShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 8.9 Thermometer # ☐

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24 hrs
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

 Custodian Printed Name

9-2-22
 Date/Time

17:10



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

SW-7@7'
2209049-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10061	09/02/22	09/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		141 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		86.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10062	09/02/22	09/03/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2209049-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BF10084	09/06/22	09/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		67.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.316	0.0100	mg/L	1	BF10113	09/06/22	09/07/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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SW-7@7'
2209049-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	3.22	0.223	mg/kg dry	1	BF10089	09/06/22	09/07/22	EPA 6020B
Barium	117	0.445	"	"	"	"	"	"
Cadmium	ND	0.223	"	"	"	"	"	"
Copper	10.6	0.445	"	"	"	"	"	"
Lead	6.77	0.223	"	"	"	"	"	"
Nickel	11.6	0.445	"	"	"	"	"	"
Selenium	0.714	0.289	"	"	"	"	"	"
Silver	0.0395	0.0223	"	"	"	"	"	"
Zinc	38.9	0.445	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10087	09/06/22	09/07/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	279	0.0556	mg/L dry	1	BF10146	09/07/22	09/09/22	EPA 6020B	
Magnesium	186	0.0556	"	"	"	"	"	"	
Sodium	731	0.0556	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.32	0.00100	units	1	BF10220	09/09/22	09/09/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SW-7@7'
2209049-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.9	%	1	BFI0156	09/07/22	09/08/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.88	0.0100	mmhos/cm	1	BFI0178	09/08/22	09/08/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/02/22 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BFI0179	09/08/22	09/08/22	EPA 9045D	

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SW-8@7'
2209049-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10061	09/02/22	09/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		143 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		86.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10062	09/02/22	09/03/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		121 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2209049-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10084	09/06/22	09/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		69.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.429	0.0100	mg/L	1	BF10113	09/06/22	09/07/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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09/09/22 12:31

SW-8@7'
2209049-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.73	0.222	mg/kg dry	1	BF10089	09/06/22	09/07/22	EPA 6020B
Barium	140	0.445	"	"	"	"	"	"
Cadmium	ND	0.222	"	"	"	"	"	"
Copper	12.8	0.445	"	"	"	"	"	"
Lead	9.27	0.222	"	"	"	"	"	"
Nickel	13.9	0.445	"	"	"	"	"	"
Selenium	0.877	0.289	"	"	"	"	"	"
Silver	0.0620	0.0222	"	"	"	"	"	"
Zinc	45.8	0.445	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10087	09/06/22	09/07/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.9	0.0556	mg/L dry	1	BF10146	09/07/22	09/09/22	EPA 6020B	
Magnesium	21.2	0.0556	"	"	"	"	"	"	
Sodium	99.0	0.0556	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.96	0.00100	units	1	BF10220	09/09/22	09/09/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Facility #4 AE2

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Project Manager: Levi Kirk

Reported:
09/09/22 12:31

SW-8@7'
2209049-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.0	%	1	BFI0156	09/07/22	09/08/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.958	0.0100	mmhos/cm	1	BFI0178	09/08/22	09/08/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/02/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BFI0179	09/08/22	09/08/22	EPA 9045D	

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1675 Broadway
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Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0061 - EPA 5030 Soil MS

Blank (BFI0061-BLK1)

Prepared & Analyzed: 09/02/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0400		98.7	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		98.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

LCS (BFI0061-BS1)

Prepared & Analyzed: 09/02/22

Benzene	0.161	0.0020	mg/kg	0.150		108	70-130			
Toluene	0.161	0.0050	"	0.150		107	70-130			
Ethylbenzene	0.157	0.0050	"	0.150		104	70-130			
m,p-Xylene	0.314	0.010	"	0.300		105	70-130			
o-Xylene	0.157	0.0050	"	0.150		105	70-130			
1,2,4-Trimethylbenzene	0.159	0.0050	"	0.150		106	70-130			
1,3,5-Trimethylbenzene	0.160	0.0050	"	0.150		106	70-130			
Naphthalene	0.156	0.0038	"	0.150		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	50-150			

Matrix Spike (BFI0061-MS1)

Source: 2209045-01

Prepared & Analyzed: 09/02/22

Benzene	0.155	0.0020	mg/kg	0.150	ND	103	70-130			
Toluene	0.155	0.0050	"	0.150	ND	104	70-130			
Ethylbenzene	0.150	0.0050	"	0.150	ND	99.8	70-130			
m,p-Xylene	0.298	0.010	"	0.300	ND	99.4	70-130			
o-Xylene	0.149	0.0050	"	0.150	ND	99.0	70-130			
1,2,4-Trimethylbenzene	0.150	0.0050	"	0.150	ND	100	70-130			
1,3,5-Trimethylbenzene	0.153	0.0050	"	0.150	ND	102	70-130			
Naphthalene	0.144	0.0038	"	0.150	ND	95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2
Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0061 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0061-MSD1)		Source: 2209045-01			Prepared & Analyzed: 09/02/22					
Benzene	0.158	0.0020	mg/kg	0.150	ND	105	70-130	1.78	30	
Toluene	0.158	0.0050	"	0.150	ND	105	70-130	1.46	30	
Ethylbenzene	0.151	0.0050	"	0.150	ND	100	70-130	0.639	30	
m,p-Xylene	0.300	0.010	"	0.300	ND	100	70-130	0.712	30	
o-Xylene	0.150	0.0050	"	0.150	ND	100	70-130	1.28	30	
1,2,4-Trimethylbenzene	0.151	0.0050	"	0.150	ND	101	70-130	0.338	30	
1,3,5-Trimethylbenzene	0.154	0.0050	"	0.150	ND	103	70-130	0.332	30	
Naphthalene	0.147	0.0038	"	0.150	ND	98.3	70-130	2.54	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2
Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0062 - EPA 3550A

Blank (BFI0062-BLK1)

Prepared: 09/02/22 Analyzed: 09/03/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFI0062-BS1)

Prepared: 09/02/22 Analyzed: 09/03/22

C10-C28 (DRO)	617	50	mg/kg	500	123	70-130
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Matrix Spike (BFI0062-MS1)

Source: 2209047-11

Prepared: 09/02/22 Analyzed: 09/03/22

C10-C28 (DRO)	531	50	mg/kg	500	ND	106	70-130
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Matrix Spike Dup (BFI0062-MSD1)

Source: 2209047-11

Prepared: 09/02/22 Analyzed: 09/03/22

C10-C28 (DRO)	538	50	mg/kg	500	ND	108	70-130	1.30	20
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2
Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0084 - EPA 5030 Soil MS

Blank (BFI0084-BLK1)

Prepared & Analyzed: 09/06/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0360		"	0.0333		108	40-150			
Surrogate: Fluoranthene-d10	0.0276		"	0.0333		82.8	40-150			

LCS (BFI0084-BS1)

Prepared & Analyzed: 09/06/22

Acenaphthene	0.0354	0.00500	mg/kg	0.0333		106	31-137			
Anthracene	0.0337	0.00500	"	0.0333		101	30-120			
Benzo (a) anthracene	0.0268	0.00500	"	0.0333		80.4	30-120			
Benzo (a) pyrene	0.0273	0.00500	"	0.0333		81.8	30-120			
Benzo (b) fluoranthene	0.0290	0.00500	"	0.0333		87.0	30-120			
Benzo (k) fluoranthene	0.0400	0.00500	"	0.0333		120	30-120			
Chrysene	0.0322	0.00500	"	0.0333		96.6	30-120			
Dibenz (a,h) anthracene	0.0240	0.00500	"	0.0333		72.1	30-120			
Fluoranthene	0.0348	0.00500	"	0.0333		105	30-120			
Fluorene	0.0336	0.00500	"	0.0333		101	30-120			
Indeno (1,2,3-cd) pyrene	0.0230	0.00500	"	0.0333		69.0	30-120			
Pyrene	0.0314	0.00500	"	0.0333		94.2	35-142			
1-Methylnaphthalene	0.0345	0.00500	"	0.0333		104	35-142			
2-Methylnaphthalene	0.0362	0.00500	"	0.0333		108	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0358		"	0.0333		107	40-150			
Surrogate: Fluoranthene-d10	0.0341		"	0.0333		102	40-150			

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0084 - EPA 5030 Soil MS

Matrix Spike (BFI0084-MS1)

Source: 2209047-11

Prepared & Analyzed: 09/06/22

Acenaphthene	0.0169	0.00500	mg/kg	0.0333	ND	50.8	31-137		
Anthracene	0.0187	0.00500	"	0.0333	ND	56.0	30-120		
Benzo (a) anthracene	0.0177	0.00500	"	0.0333	ND	53.1	30-120		
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	30-120		
Benzo (b) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120		
Benzo (k) fluoranthene	0.0225	0.00500	"	0.0333	ND	67.6	30-120		
Chrysene	0.0182	0.00500	"	0.0333	ND	54.6	30-120		
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.4	30-120		
Fluoranthene	0.0189	0.00500	"	0.0333	ND	56.7	30-120		
Fluorene	0.0189	0.00500	"	0.0333	ND	56.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120		
Pyrene	0.0186	0.00500	"	0.0333	ND	55.9	35-142		
1-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.4	15-130		
2-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.8	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.4	40-150		
Surrogate: Fluoranthene-d10	0.0178		"	0.0333		53.4	40-150		

Matrix Spike Dup (BFI0084-MSD1)

Source: 2209047-11

Prepared & Analyzed: 09/06/22

Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.3	31-137	3.06	30
Anthracene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	1.52	30
Benzo (a) anthracene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	7.39	30
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.1	30-120	5.99	30
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	8.18	30
Benzo (k) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.8	30-120	2.67	30
Chrysene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	1.01	30
Dibenz (a,h) anthracene	0.0154	0.00500	"	0.0333	ND	46.1	30-120	6.89	30
Fluoranthene	0.0194	0.00500	"	0.0333	ND	58.1	30-120	2.38	30
Fluorene	0.0171	0.00500	"	0.0333	ND	51.4	30-120	9.59	30
Indeno (1,2,3-cd) pyrene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	8.15	30
Pyrene	0.0191	0.00500	"	0.0333	ND	57.4	35-142	2.80	30
1-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.1	15-130	6.16	50
2-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.0	15-130	5.56	50
Surrogate: 2-Methylnaphthalene-d10	0.0162		"	0.0333		48.5	40-150		
Surrogate: Fluoranthene-d10	0.0177		"	0.0333		53.2	40-150		

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0113 - EPA 3050B

Blank (BFI0113-BLK1)

Prepared: 09/06/22 Analyzed: 09/07/22

Boron ND 0.0100 mg/L

LCS (BFI0113-BS1)

Prepared: 09/06/22 Analyzed: 09/07/22

Boron 5.35 0.0100 mg/L 5.00 107 80-120

Duplicate (BFI0113-DUP1)

Source: 2208347-01

Prepared: 09/06/22 Analyzed: 09/07/22

Boron 0.00764 0.0100 mg/L 0.00719 5.96 20

Matrix Spike (BFI0113-MS1)

Source: 2208347-01

Prepared: 09/06/22 Analyzed: 09/07/22

Boron 5.27 0.0100 mg/L 5.00 0.00719 105 75-125

Matrix Spike Dup (BFI0113-MSD1)

Source: 2208347-01

Prepared: 09/06/22 Analyzed: 09/07/22

Boron 5.27 0.0100 mg/L 5.00 0.00719 105 75-125 0.0959 25

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0089 - EPA 3050B

Blank (BFI0089-BLK1)

Prepared & Analyzed: 09/06/22

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFI0089-BS1)

Prepared & Analyzed: 09/06/22

Arsenic	41.6	0.200	mg/kg wet	40.0	104	80-120
Barium	39.4	0.400	"	40.0	98.6	80-120
Cadmium	1.99	0.200	"	2.00	99.4	80-120
Copper	40.1	0.400	"	40.0	100	80-120
Lead	17.9	0.200	"	20.0	89.5	80-120
Nickel	39.7	0.400	"	40.0	99.3	80-120
Selenium	4.08	0.260	"	4.00	102	80-120
Silver	1.92	0.0200	"	2.00	96.2	80-120
Zinc	42.4	0.400	"	40.0	106	80-120

Duplicate (BFI0089-DUP1)

Source: 2208437-01

Prepared & Analyzed: 09/06/22

Arsenic	2.59	0.213	mg/kg dry	2.37	8.99	20
Barium	49.7	0.426	"	46.8	6.01	20
Cadmium	0.0782	0.213	"	0.0731	6.72	20
Copper	2.74	0.426	"	2.50	8.90	20
Lead	3.56	0.213	"	3.33	6.85	20
Nickel	2.62	0.426	"	2.41	8.42	20
Selenium	0.417	0.277	"	0.364	13.6	20
Silver	0.00826	0.0213	"	0.00778	5.93	20
Zinc	10.0	0.426	"	9.57	4.79	20

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0089 - EPA 3050B

Matrix Spike (BFI0089-MS1)

Source: 2208437-01

Prepared & Analyzed: 09/06/22

Arsenic	39.7	0.213	mg/kg dry	42.6	2.37	87.8	75-125			
Barium	83.9	0.426	"	42.6	46.8	87.1	75-125			
Cadmium	1.90	0.213	"	2.13	0.0731	85.7	75-125			
Copper	38.6	0.426	"	42.6	2.50	84.8	75-125			
Lead	18.8	0.213	"	21.3	3.33	72.4	75-125			QM-05
Nickel	38.9	0.426	"	42.6	2.41	85.6	75-125			
Selenium	3.60	0.277	"	4.26	0.364	76.0	75-125			
Silver	1.75	0.0213	"	2.13	0.00778	81.7	75-125			
Zinc	47.1	0.426	"	42.6	9.57	88.1	75-125			

Matrix Spike Dup (BFI0089-MSD1)

Source: 2208437-01

Prepared & Analyzed: 09/06/22

Arsenic	39.4	0.213	mg/kg dry	42.6	2.37	87.0	75-125	0.851	25	
Barium	83.5	0.426	"	42.6	46.8	86.0	75-125	0.519	25	
Cadmium	1.89	0.213	"	2.13	0.0731	85.3	75-125	0.381	25	
Copper	38.2	0.426	"	42.6	2.50	83.7	75-125	1.18	25	
Lead	18.8	0.213	"	21.3	3.33	72.8	75-125	0.367	25	QM-05
Nickel	38.3	0.426	"	42.6	2.41	84.2	75-125	1.58	25	
Selenium	3.59	0.277	"	4.26	0.364	75.7	75-125	0.340	25	
Silver	1.74	0.0213	"	2.13	0.00778	81.2	75-125	0.633	25	
Zinc	46.2	0.426	"	42.6	9.57	86.0	75-125	1.93	25	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0087 - 3060A Mod

Blank (BFI0087-BLK1)

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFI0087-BS1)

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BFI0087-DUP1)

Source: 2209030-02

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFI0087-MS1)

Source: 2209030-02

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent 27.1 0.30 mg/kg dry 26.4 ND 103 75-125

Matrix Spike Dup (BFI0087-MSD1)

Source: 2209030-02

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent 25.9 0.30 mg/kg dry 26.4 ND 98.2 75-125 4.58 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0146 - General Preparation

Blank (BFI0146-BLK1)

Prepared: 09/07/22 Analyzed: 09/09/22

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BFI0146-BS1)

Prepared: 09/07/22 Analyzed: 09/09/22

Calcium	5.47	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.22	0.0500	"	5.00	104	70-130
Sodium	5.02	0.0500	"	5.00	100	70-130

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0156 - General Preparation

Duplicate (BFI0156-DUP1)

Source: 2209046-01

Prepared: 09/07/22 Analyzed: 09/08/22

% Solids	91.2	%	89.4	1.98	20
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Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0178 - General Preparation

Blank (BFI0178-BLK1)

Prepared & Analyzed: 09/08/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0178-BS1)

Prepared & Analyzed: 09/08/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.1 95-105

Duplicate (BFI0178-DUP1)

Source: 2209026-17

Prepared & Analyzed: 09/08/22

Specific Conductance (EC) 1.06 0.0100 mmhos/cm 1.08 1.31 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BFI0179 - General Preparation

LCS (BFI0179-BS1)

Prepared & Analyzed: 09/08/22

pH	9.13	pH Units	9.18	99.5	95-105
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Duplicate (BFI0179-DUP1)

Source: 2209026-16

Prepared & Analyzed: 09/08/22

pH	7.65	pH Units	7.62	0.393	20
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Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference