

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 14, 2022

J Galles

K.P. Kauffman

1675 Broadway

Denver, CO 80202

RE: Facility #4 AE2

Work Order #2205381

Enclosed are the results of analyses for samples received by Summit Scientific on 05/25/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BK-1@4'	2205381-01	Soil	05/25/22 10:50	05/25/22 15:00
BK-1@8'	2205381-02	Soil	05/25/22 10:55	05/25/22 15:00
BK-2@4'	2205381-03	Soil	05/25/22 11:05	05/25/22 15:00
BK-2@8'	2205381-04	Soil	05/25/22 11:10	05/25/22 15:00
BK-3@4'	2205381-05	Soil	05/25/22 11:20	05/25/22 15:00
BK-3@8'	2205381-06	Soil	05/25/22 11:25	05/25/22 15:00
BK-4@4'	2205381-07	Soil	05/25/22 11:35	05/25/22 15:00
BK-4@8'	2205381-08	Soil	05/25/22 11:40	05/25/22 15:00

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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.

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S₂

2205381

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Client: KP Kaufman (MarCom)

Project Manager: Jennifer Gales

Page 1 of 1

Address:

E-Mail: PrimaryContractor@marcomllc.net

City/State/Zip:

Phone:

Project Name: Facility 4 AE2

Sampler Name: HAC

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	Table GIS	Inorganic							
1	BK-1 @ 4'	5-25-22	1050	1			X			X											
2	BK-1 @ 8'		1055																		
3	BK-2 @ 4'		1105																		
4	BK-2 @ 8'		1110																		
5	BK-3 @ 4'		1120																		
6	BK-3 @ 8'		1125																		
7	BK-4 @ 4'		1135																		
8	BK-4 @ 8'		1140																		
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>5-25-22 1245</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5-25-22 1300</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>
Temperature Upon Receipt: <u>10.1</u>	Corrected Temperature: <u>10.1</u>	HNO ₃ lot #	Sample Integrity:	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
IR gun correction: <u>0</u>	IR gun #:				

S₂

2205381

Sample Receipt Checklist

S2 Work Order#

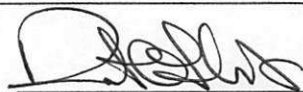
Client: Kpk (marcom) Client Project ID: Facility 4 AE2

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

	-			
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 10.1Thermometer # 1

	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.	-			ON ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?		-		
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			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
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.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				



Custodian Printed Name

52522

Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-1@4'
2205381-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.349	0.0100	mg/L	1	BFE0747	05/31/22	06/06/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.70	0.212	mg/kg dry	1	BFF0248	06/09/22	06/12/22	EPA 6020B	
Barium	142	0.424	"	"	"	"	"	"	
Cadmium	ND	0.212	"	"	"	"	"	"	
Copper	12.3	0.424	"	"	"	"	"	"	
Lead	9.49	0.212	"	"	"	"	"	"	
Nickel	13.3	0.424	"	"	"	"	"	"	
Selenium	0.768	0.276	"	"	"	"	"	"	
Silver	0.0553	0.0212	"	"	"	"	"	"	
Zinc	43.6	0.424	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0179	06/07/22	06/07/22	EPA 7196A	

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

Date Sampled: **05/25/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	686	0.0530	mg/L dry	1	BFF0161	06/08/22	06/10/22	EPA 6020B	
Magnesium	213	0.0530	"	"	"	"	"	"	
Sodium	570	0.0530	"	"	"	"	"	"	

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1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-1@4'
2205381-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/25/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.87	0.00100	units	1	BFF0290	06/10/22	06/10/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.3		%	1	BFE0742	05/31/22	06/01/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.36	0.0100	mmhos/cm	1	BFF0165	06/07/22	06/08/22	EPA 120.1	

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

Date Sampled: **05/25/22 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BFF0166	06/07/22	06/08/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-1@8'
2205381-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/22 10:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.602	0.0100	mg/L	1	BFE0747	05/31/22	06/06/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/22 10:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.90	0.232	mg/kg dry	1	BFF0248	06/09/22	06/12/22	EPA 6020B	
Barium	89.8	0.464	"	"	"	"	"	"	
Cadmium	0.327	0.232	"	"	"	"	"	"	
Copper	11.9	0.464	"	"	"	"	"	"	
Lead	14.1	0.232	"	"	"	"	"	"	
Nickel	11.9	0.464	"	"	"	"	"	"	
Selenium	0.797	0.302	"	"	"	"	"	"	
Silver	0.0534	0.0232	"	"	"	"	"	"	
Zinc	42.6	0.464	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/22 10:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0179	06/07/22	06/07/22	EPA 7196A	

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

Date Sampled: **05/25/22 10:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	2040	0.0580	mg/L dry	1	BFF0161	06/08/22	06/10/22	EPA 6020B	
Magnesium	400	0.0580	"	"	"	"	"	"	
Sodium	675	0.0580	"	"	"	"	"	"	

Calculated Analysis

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1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-1@8'
2205381-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/25/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.58	0.00100	units	1	BFF0290	06/10/22	06/10/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BFE0742	05/31/22	06/01/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.71	0.0100	mmhos/cm	1	BFF0165	06/07/22	06/08/22	EPA 120.1	

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

Date Sampled: **05/25/22 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BFF0166	06/07/22	06/08/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-2@4'
2205381-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.354	0.0100	mg/L	1	BFE0747	05/31/22	06/06/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.53	0.216	mg/kg dry	1	BFF0248	06/09/22	06/12/22	EPA 6020B	
Barium	134	0.433	"	"	"	"	"	"	
Cadmium	ND	0.216	"	"	"	"	"	"	
Copper	12.1	0.433	"	"	"	"	"	"	
Lead	9.19	0.216	"	"	"	"	"	"	
Nickel	13.1	0.433	"	"	"	"	"	"	
Selenium	0.768	0.281	"	"	"	"	"	"	
Silver	0.0558	0.0216	"	"	"	"	"	"	
Zinc	42.7	0.433	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0179	06/07/22	06/07/22	EPA 7196A	

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

Date Sampled: **05/25/22 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	1240	0.0541	mg/L dry	1	BFF0161	06/08/22	06/10/22	EPA 6020B	
Magnesium	406	0.0541	"	"	"	"	"	"	
Sodium	1160	0.0541	"	"	"	"	"	"	

Calculated Analysis

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-2@4'
2205381-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/25/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.31	0.00100	units	1	BFF0290	06/10/22	06/10/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BFE0742	05/31/22	06/01/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.38	0.0100	mmhos/cm	1	BFF0165	06/07/22	06/08/22	EPA 120.1	

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

Date Sampled: **05/25/22 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BFF0166	06/07/22	06/08/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-2@8'
2205381-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.115	0.0100	mg/L	1	BFE0747	05/31/22	06/06/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.91	0.246	mg/kg dry	1	BFF0248	06/09/22	06/12/22	EPA 6020B	
Barium	142	0.492	"	"	"	"	"	"	
Cadmium	ND	0.246	"	"	"	"	"	"	
Copper	14.9	0.492	"	"	"	"	"	"	
Lead	11.0	0.246	"	"	"	"	"	"	
Nickel	16.1	0.492	"	"	"	"	"	"	
Selenium	0.832	0.320	"	"	"	"	"	"	
Silver	0.0627	0.0246	"	"	"	"	"	"	
Zinc	51.4	0.492	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0179	06/07/22	06/07/22	EPA 7196A	

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

Date Sampled: **05/25/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	3360	0.0615	mg/L dry	1	BFF0161	06/08/22	06/10/22	EPA 6020B	
Magnesium	792	0.0615	"	"	"	"	"	"	
Sodium	62.5	0.0615	"	"	"	"	"	"	

Calculated Analysis

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K.P. Kauffman
1675 Broadway
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Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-2@8'
2205381-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/25/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.252	0.00100	units	1	BFF0290	06/10/22	06/10/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.3		%	1	BFE0742	05/31/22	06/01/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.323	0.0100	mmhos/cm	1	BFF0165	06/07/22	06/08/22	EPA 120.1	

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

Date Sampled: **05/25/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BFF0166	06/07/22	06/08/22	EPA 9045D	

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1675 Broadway
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Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-3@4'
2205381-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/22 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.216	0.0100	mg/L	1	BFE0747	05/31/22	06/06/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/22 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.24	0.229	mg/kg dry	1	BFF0248	06/09/22	06/12/22	EPA 6020B	
Barium	130	0.459	"	"	"	"	"	"	
Cadmium	ND	0.229	"	"	"	"	"	"	
Copper	12.2	0.459	"	"	"	"	"	"	
Lead	8.81	0.229	"	"	"	"	"	"	
Nickel	13.2	0.459	"	"	"	"	"	"	
Selenium	0.722	0.298	"	"	"	"	"	"	
Silver	0.0603	0.0229	"	"	"	"	"	"	
Zinc	44.1	0.459	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/22 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0179	06/07/22	06/07/22	EPA 7196A	

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

Date Sampled: **05/25/22 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	1090	0.0573	mg/L dry	1	BFF0161	06/08/22	06/10/22	EPA 6020B	
Magnesium	243	0.0573	"	"	"	"	"	"	
Sodium	193	0.0573	"	"	"	"	"	"	

Calculated Analysis

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-3@4'
2205381-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/25/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.38	0.00100	units	1	BFF0290	06/10/22	06/10/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.2		%	1	BFE0742	05/31/22	06/01/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.884	0.0100	mmhos/cm	1	BFF0165	06/07/22	06/08/22	EPA 120.1	

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

Date Sampled: **05/25/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BFF0166	06/07/22	06/08/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-3@8'
2205381-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.218	0.0100	mg/L	1	BFE0747	05/31/22	06/06/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.59	0.248	mg/kg dry	1	BFF0248	06/09/22	06/12/22	EPA 6020B	
Barium	120	0.496	"	"	"	"	"	"	
Cadmium	ND	0.248	"	"	"	"	"	"	
Copper	13.1	0.496	"	"	"	"	"	"	
Lead	10.4	0.248	"	"	"	"	"	"	
Nickel	14.7	0.496	"	"	"	"	"	"	
Selenium	0.889	0.322	"	"	"	"	"	"	
Silver	0.0571	0.0248	"	"	"	"	"	"	
Zinc	46.7	0.496	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0179	06/07/22	06/07/22	EPA 7196A	

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

Date Sampled: **05/25/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	1380	0.0620	mg/L dry	1	BFF0161	06/08/22	06/10/22	EPA 6020B	
Magnesium	495	0.0620	"	"	"	"	"	"	
Sodium	217	0.0620	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-3@8'
2205381-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/25/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.28	0.00100	units	1	BFF0290	06/10/22	06/10/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.6		%	1	BFE0742	05/31/22	06/01/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.883	0.0100	mmhos/cm	1	BFF0165	06/07/22	06/08/22	EPA 120.1	

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

Date Sampled: **05/25/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BFF0166	06/07/22	06/08/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-4@4'
2205381-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.377	0.0100	mg/L	1	BFE0747	05/31/22	06/06/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.26	0.239	mg/kg dry	1	BFF0248	06/09/22	06/12/22	EPA 6020B	
Barium	154	0.478	"	"	"	"	"	"	
Cadmium	0.277	0.239	"	"	"	"	"	"	
Copper	14.6	0.478	"	"	"	"	"	"	
Lead	11.3	0.239	"	"	"	"	"	"	
Nickel	15.9	0.478	"	"	"	"	"	"	
Selenium	1.03	0.311	"	"	"	"	"	"	
Silver	0.0589	0.0239	"	"	"	"	"	"	
Zinc	52.5	0.478	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0179	06/07/22	06/07/22	EPA 7196A	

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

Date Sampled: **05/25/22 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	1090	0.0597	mg/L dry	1	BFF0161	06/08/22	06/10/22	EPA 6020B	
Magnesium	330	0.0597	"	"	"	"	"	"	
Sodium	702	0.0597	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-4@4'
2205381-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/25/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.78	0.00100	units	1	BFF0290	06/10/22	06/10/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BFE0742	05/31/22	06/01/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.45	0.0100	mmhos/cm	1	BFF0165	06/07/22	06/08/22	EPA 120.1	

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

Date Sampled: **05/25/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BFF0166	06/07/22	06/08/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-4@8'
2205381-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.256	0.0100	mg/L	1	BFE0747	05/31/22	06/06/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.94	0.236	mg/kg dry	1	BFF0248	06/09/22	06/12/22	EPA 6020B	
Barium	153	0.472	"	"	"	"	"	"	
Cadmium	0.241	0.236	"	"	"	"	"	"	
Copper	13.5	0.472	"	"	"	"	"	"	
Lead	10.6	0.236	"	"	"	"	"	"	
Nickel	17.0	0.472	"	"	"	"	"	"	
Selenium	1.07	0.307	"	"	"	"	"	"	
Silver	0.0529	0.0236	"	"	"	"	"	"	
Zinc	49.4	0.472	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0179	06/07/22	06/07/22	EPA 7196A	

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

Date Sampled: **05/25/22 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	1030	0.0590	mg/L dry	1	BFF0161	06/08/22	06/10/22	EPA 6020B	
Magnesium	399	0.0590	"	"	"	"	"	"	
Sodium	247	0.0590	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

BK-4@8'
2205381-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/25/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.66	0.00100	units	1	BFF0290	06/10/22	06/10/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BFE0742	05/31/22	06/01/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.626	0.0100	mmhos/cm	1	BFF0165	06/07/22	06/08/22	EPA 120.1	

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

Date Sampled: **05/25/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BFF0166	06/07/22	06/08/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

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 BFE0747 - EPA 3050B

Blank (BFE0747-BLK1)

Prepared: 05/31/22 Analyzed: 06/05/22

Boron	ND	0.0100	mg/L
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LCS (BFE0747-BS1)

Prepared: 05/31/22 Analyzed: 06/05/22

Boron	5.44	0.0100	mg/L	5.00	109	80-120
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Duplicate (BFE0747-DUP1)

Source: 2205346-01

Prepared: 05/31/22 Analyzed: 06/05/22

Boron	0.251	0.0100	mg/L	0.252	0.545	20
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Matrix Spike (BFE0747-MS1)

Source: 2205346-01

Prepared: 05/31/22 Analyzed: 06/05/22

Boron	5.58	0.0100	mg/L	5.00	0.252	107	75-125
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Matrix Spike Dup (BFE0747-MSD1)

Source: 2205346-01

Prepared: 05/31/22 Analyzed: 06/05/22

Boron	5.96	0.0100	mg/L	5.00	0.252	114	75-125	6.67	25
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

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 BFF0248 - EPA 3050B

Blank (BFF0248-BLK1)

Prepared: 06/09/22 Analyzed: 06/12/22

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 (BFF0248-BS1)

Prepared: 06/09/22 Analyzed: 06/12/22

Arsenic	43.0	0.200	mg/kg wet	40.0	108	80-120
Barium	41.6	0.400	"	40.0	104	80-120
Cadmium	2.10	0.200	"	2.00	105	80-120
Copper	43.0	0.400	"	40.0	107	80-120
Lead	23.3	0.200	"	20.0	117	80-120
Nickel	41.4	0.400	"	40.0	103	80-120
Selenium	4.09	0.260	"	4.00	102	80-120
Silver	2.07	0.0200	"	2.00	103	80-120
Zinc	44.0	0.400	"	40.0	110	80-120

Duplicate (BFF0248-DUP1)

Source: 2205380-01

Prepared: 06/09/22 Analyzed: 06/12/22

Arsenic	1.85	0.213	mg/kg dry	1.79	2.91	20
Barium	82.0	0.427	"	74.6	9.37	20
Cadmium	0.189	0.213	"	0.168	11.4	20
Copper	7.12	0.427	"	6.99	1.77	20
Lead	8.82	0.213	"	7.93	10.6	20
Nickel	6.18	0.427	"	6.01	2.82	20
Selenium	0.643	0.277	"	0.614	4.61	20
Silver	0.0391	0.0213	"	0.0351	10.8	20
Zinc	26.2	0.427	"	25.8	1.38	20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

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 BFF0248 - EPA 3050B

Matrix Spike (BFF0248-MS1)		Source: 2205380-01			Prepared: 06/09/22 Analyzed: 06/12/22					
Arsenic	43.8	0.213	mg/kg dry	42.7	1.79	98.5	75-125			
Barium	148	0.427	"	42.7	74.6	173	75-125			QM-02
Cadmium	2.72	0.213	"	2.13	0.168	120	75-125			
Copper	49.9	0.427	"	42.7	6.99	101	75-125			
Lead	31.4	0.213	"	21.3	7.93	110	75-125			
Nickel	48.4	0.427	"	42.7	6.01	99.5	75-125			
Selenium	4.06	0.277	"	4.27	0.614	80.7	75-125			
Silver	2.48	0.0213	"	2.13	0.0351	115	75-125			
Zinc	73.2	0.427	"	42.7	25.8	111	75-125			

Matrix Spike Dup (BFF0248-MSD1)		Source: 2205380-01			Prepared: 06/09/22 Analyzed: 06/12/22					
Arsenic	44.1	0.213	mg/kg dry	42.7	1.79	99.1	75-125	0.550	25	
Barium	138	0.427	"	42.7	74.6	148	75-125	7.56	25	QM-02
Cadmium	2.52	0.213	"	2.13	0.168	110	75-125	7.60	25	
Copper	50.7	0.427	"	42.7	6.99	103	75-125	1.58	25	
Lead	29.1	0.213	"	21.3	7.93	99.1	75-125	7.74	25	
Nickel	48.8	0.427	"	42.7	6.01	100	75-125	0.685	25	
Selenium	4.02	0.277	"	4.27	0.614	79.8	75-125	0.919	25	
Silver	2.30	0.0213	"	2.13	0.0351	106	75-125	7.51	25	
Zinc	73.7	0.427	"	42.7	25.8	112	75-125	0.697	25	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

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 BFF0179 - 3060A Mod

Blank (BFF0179-BLK1)

Prepared & Analyzed: 06/07/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFF0179-BS1)

Prepared & Analyzed: 06/07/22

Chromium, Hexavalent 26.6 0.30 mg/kg wet 25.0 106 80-120

Duplicate (BFF0179-DUP1)

Source: 2205346-01

Prepared & Analyzed: 06/07/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFF0179-MS1)

Source: 2205346-01

Prepared & Analyzed: 06/07/22

Chromium, Hexavalent 34.4 0.30 mg/kg dry 27.9 ND 123 75-125

Matrix Spike Dup (BFF0179-MSD1)

Source: 2205346-01

Prepared & Analyzed: 06/07/22

Chromium, Hexavalent 33.4 0.30 mg/kg dry 27.9 ND 119 75-125 2.97 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

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

Summit Scientific

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

Batch BFF0161 - General Preparation

Blank (BFF0161-BLK1)

Prepared: 06/08/22 Analyzed: 06/09/22

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

LCS (BFF0161-BS1)

Prepared: 06/08/22 Analyzed: 06/09/22

Calcium	530	0.0500	mg/L wet	500	106	70-130
Magnesium	535	0.0500	"	500	107	70-130
Sodium	515	0.0500	"	500	103	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: J Galles

Reported:
06/14/22 11:44

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 BFE0742 - General Preparation

Duplicate (BFE0742-DUP1)

Source: 2205380-01

Prepared: 05/31/22 Analyzed: 06/01/22

% Solids	96.3	%	93.8	2.70	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: J Galles

Reported:
06/14/22 11:44

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 BFF0165 - General Preparation

Blank (BFF0165-BLK1)

Prepared: 06/07/22 Analyzed: 06/08/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFF0165-BS1)

Prepared: 06/07/22 Analyzed: 06/08/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BFF0165-DUP1)

Source: 2205269-02

Prepared: 06/07/22 Analyzed: 06/08/22

Specific Conductance (EC) 1.47 0.0100 mmhos/cm 1.46 1.02 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: J Galles

Reported:
06/14/22 11:44

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

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

Batch BFF0166 - General Preparation

LCS (BFF0166-BS1)

Prepared: 06/07/22 Analyzed: 06/08/22

pH	9.07	pH Units	9.18	98.8	95-105
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Duplicate (BFF0166-DUP1)

Source: 2205269-07

Prepared: 06/07/22 Analyzed: 06/08/22

pH	8.49	pH Units	8.48	0.118	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: J Galles

Reported:
06/14/22 11:44

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
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