

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 01, 2022

Jennifer Galles
K.P. Kauffman
1675 Broadway
Denver, CO 80202

RE: RMF

Work Order #2205198

Enclosed are the results of analyses for samples received by Summit Scientific on 05/12/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BK-5@4'	2205198-01	Soil	05/12/22 08:20	05/12/22 15:00
BK-5@8'	2205198-02	Soil	05/12/22 08:25	05/12/22 15:00
BK-6@4'	2205198-03	Soil	05/12/22 08:35	05/12/22 15:00
BK-6@8'	2205198-04	Soil	05/12/22 08:40	05/12/22 15:00
BK-7@4'	2205198-05	Soil	05/12/22 08:55	05/12/22 15:00
BK-7@8'	2205198-06	Soil	05/12/22 09:00	05/12/22 15:00
BK-8@4'	2205198-07	Soil	05/12/22 09:15	05/12/22 15:00
BK-8@8'	2205198-08	Soil	05/12/22 09:20	05/12/22 15:00

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Summit Scientific

2205198

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

Page 1 of 1

Client: K.P. Kauffman/ Marcom

Project Manager: Jen Galles

Address: 1675 Broadway

E-Mail: primarycontractor@marcomllc.net

City/State/Zip: Denver, CO 80202

Phone: 303.825.4822

Project Name: RMF

Sampler Name: H. Coleman

Project Number: RMF

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	BK-5 @ 4'	5-12-22	0820	1			X			X										
2	BK-5 @ 8'		0825	1																
3	BK-6 @ 4'		0835	1																
4	BK-6 @ 8'		0840	1																
5	BK-7 @ 4'		0855	1																
6	BK-7 @ 8'		0900	1																
7	BK-8 @ 4'		0915	1																
8	BK-8 @ 8'		0920	1																
9																				
10																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>5-12-22 @ 1300</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5-12-22 1500</u>	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>60</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2205198

Client: Kp Kauffman Client Project ID: RMT

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C)

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.	-			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.

[Signature]
Custodian Printed Name

S1222
Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-5@4'
2205198-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/12/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.221	0.0100	mg/L	1	BFE0404	05/18/22	05/24/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/12/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.39	0.219	mg/kg dry	1	BFE0430	05/19/22	05/25/22	EPA 6020B	
Barium	144	0.437	"	"	"	"	"	"	
Cadmium	0.253	0.219	"	"	"	"	"	"	
Copper	12.4	0.437	"	"	"	"	"	"	
Lead	10.8	0.219	"	"	"	"	"	"	
Nickel	14.8	0.437	"	"	"	"	"	"	
Selenium	0.801	0.284	"	"	"	"	"	"	
Silver	0.0528	0.0219	"	"	"	"	"	"	
Zinc	45.6	0.437	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/12/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0678	05/23/22	05/28/22	EPA 7196A	

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

Date Sampled: **05/12/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	941	0.0546	mg/L dry	1	BFE0413	05/19/22	05/21/22	EPA 6020B	
Magnesium	209	0.0546	"	"	"	"	"	"	
Sodium	475	0.0546	"	"	"	"	"	"	

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Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-5@4'
2205198-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/12/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.65	0.00100	units	1	BFE0480	05/22/22	05/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/12/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	BFE0354	05/17/22	05/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/12/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.16	0.0100	mmhos/cm	1	BFE0415	05/19/22	05/19/22	EPA 120.1	

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

Date Sampled: **05/12/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BFE0414	05/19/22	05/19/22	EPA 9045D	

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1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-5@8'
2205198-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/12/22 08:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	0.543	0.0100		mg/L	1	BFE0404	05/18/22	05/24/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/12/22 08:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.63	0.238		mg/kg dry	1	BFE0430	05/19/22	05/25/22	EPA 6020B	
Barium	96.3	0.476		"	"	"	"	"	"	
Cadmium	ND	0.238		"	"	"	"	"	"	
Copper	11.5	0.476		"	"	"	"	"	"	
Lead	10.2	0.238		"	"	"	"	"	"	
Nickel	12.5	0.476		"	"	"	"	"	"	
Selenium	0.716	0.310		"	"	"	"	"	"	
Silver	0.0509	0.0238		"	"	"	"	"	"	
Zinc	39.2	0.476		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/12/22 08:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BFE0678	05/23/22	05/28/22	EPA 7196A	

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

Date Sampled: **05/12/22 08:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	4810	0.0596		mg/L dry	1	BFE0413	05/19/22	05/21/22	EPA 6020B	
Magnesium	723	0.0596		"	"	"	"	"	"	
Sodium	1830	0.0596		"	"	"	"	"	"	

Calculated Analysis

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K.P. Kauffman
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Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-5@8'
2205198-02 (Soil)

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Calculated Analysis

Date Sampled: **05/12/22 08:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.50	0.00100	units	1	BFE0480	05/22/22	05/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/12/22 08:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BFE0354	05/17/22	05/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/12/22 08:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.09	0.0100	mmhos/cm	1	BFE0415	05/19/22	05/19/22	EPA 120.1	

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

Date Sampled: **05/12/22 08:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BFE0414	05/19/22	05/19/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
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Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-6@4'
2205198-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/12/22 08:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	0.843	0.0100	mg/L	1	BFE0404	05/18/22	05/24/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/12/22 08:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.95	0.235	mg/kg dry	1	BFE0430	05/19/22	05/25/22	EPA 6020B	
Barium	154	0.471	"	"	"	"	"	"	
Cadmium	ND	0.235	"	"	"	"	"	"	
Copper	16.3	0.471	"	"	"	"	"	"	
Lead	13.5	0.235	"	"	"	"	"	"	
Nickel	13.7	0.471	"	"	"	"	"	"	
Selenium	1.17	0.306	"	"	"	"	"	"	
Silver	0.0354	0.0235	"	"	"	"	"	"	
Zinc	69.0	0.471	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/12/22 08:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0678	05/23/22	05/28/22	EPA 7196A	

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

Date Sampled: **05/12/22 08:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1370	0.0589	mg/L dry	1	BFE0413	05/19/22	05/21/22	EPA 6020B	
Magnesium	310	0.0589	"	"	"	"	"	"	
Sodium	1340	0.0589	"	"	"	"	"	"	

Calculated Analysis

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K.P. Kauffman
1675 Broadway
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Project: RMF
Project Number: [none]
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Reported:
06/01/22 15:40

BK-6@4'
2205198-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/12/22 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.51	0.00100	units	1	BFE0480	05/22/22	05/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/12/22 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BFE0354	05/17/22	05/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/12/22 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.78	0.0100	mmhos/cm	1	BFE0415	05/19/22	05/19/22	EPA 120.1	

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

Date Sampled: **05/12/22 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BFE0414	05/19/22	05/19/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-6@8'
2205198-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/12/22 08:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	0.287	0.0100	mg/L	1	BFE0404	05/18/22	05/24/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/12/22 08:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.57	0.229	mg/kg dry	1	BFE0430	05/19/22	05/25/22	EPA 6020B	
Barium	7.28	0.458	"	"	"	"	"	"	
Cadmium	0.254	0.229	"	"	"	"	"	"	
Copper	8.17	0.458	"	"	"	"	"	"	
Lead	8.66	0.229	"	"	"	"	"	"	
Nickel	11.9	0.458	"	"	"	"	"	"	
Selenium	0.570	0.298	"	"	"	"	"	"	
Silver	0.0239	0.0229	"	"	"	"	"	"	
Zinc	24.3	0.458	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/12/22 08:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0678	05/23/22	05/28/22	EPA 7196A	

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

Date Sampled: **05/12/22 08:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1090	0.0573	mg/L dry	1	BFE0413	05/19/22	05/21/22	EPA 6020B	
Magnesium	480	0.0573	"	"	"	"	"	"	
Sodium	995	0.0573	"	"	"	"	"	"	

Calculated Analysis

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-6@8'
2205198-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/12/22 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.32	0.00100	units	1	BFE0480	05/22/22	05/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/12/22 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.2		%	1	BFE0354	05/17/22	05/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/12/22 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.06	0.0100	mmhos/cm	1	BFE0415	05/19/22	05/19/22	EPA 120.1	

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

Date Sampled: **05/12/22 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BFE0414	05/19/22	05/19/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-7@4'
2205198-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/12/22 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	0.287	0.0100		mg/L	1	BFE0404	05/18/22	05/24/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/12/22 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.55	0.225		mg/kg dry	1	BFE0430	05/19/22	05/25/22	EPA 6020B	
Barium	21.5	0.449		"	"	"	"	"	"	
Cadmium	ND	0.225		"	"	"	"	"	"	
Copper	11.1	0.449		"	"	"	"	"	"	
Lead	10.4	0.225		"	"	"	"	"	"	
Nickel	12.0	0.449		"	"	"	"	"	"	
Selenium	0.745	0.292		"	"	"	"	"	"	
Silver	ND	0.0225		"	"	"	"	"	"	
Zinc	71.9	0.449		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/12/22 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BFE0678	05/23/22	05/28/22	EPA 7196A	

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

Date Sampled: **05/12/22 08:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	524	0.0562		mg/L dry	1	BFE0413	05/19/22	05/21/22	EPA 6020B	
Magnesium	177	0.0562		"	"	"	"	"	"	
Sodium	692	0.0562		"	"	"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-7@4'
2205198-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/12/22 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.67	0.00100	units	1	BFE0480	05/22/22	05/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/12/22 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BFE0354	05/17/22	05/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/12/22 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.42	0.0100	mmhos/cm	1	BFE0415	05/19/22	05/19/22	EPA 120.1	

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

Date Sampled: **05/12/22 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BFE0414	05/19/22	05/19/22	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-7@8'
2205198-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/12/22 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	0.404	0.0100	mg/L	1	BFE0404	05/18/22	05/24/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/12/22 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	ND	0.224	mg/kg dry	1	BFE0430	05/19/22	05/25/22	EPA 6020B	
Barium	10.1	0.448	"	"	"	"	"	"	
Cadmium	ND	0.224	"	"	"	"	"	"	
Copper	9.20	0.448	"	"	"	"	"	"	
Lead	8.01	0.224	"	"	"	"	"	"	
Nickel	2.14	0.448	"	"	"	"	"	"	
Selenium	0.332	0.291	"	"	"	"	"	"	
Silver	0.0266	0.0224	"	"	"	"	"	"	
Zinc	12.0	0.448	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/12/22 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0678	05/23/22	05/28/22	EPA 7196A	

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

Date Sampled: **05/12/22 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1010	0.0560	mg/L dry	1	BFE0413	05/19/22	05/21/22	EPA 6020B	
Magnesium	392	0.0560	"	"	"	"	"	"	
Sodium	1150	0.0560	"	"	"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-7@8'
2205198-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/12/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.78	0.00100	units	1	BFE0480	05/22/22	05/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/12/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	BFE0354	05/17/22	05/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/12/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.90	0.0100	mmhos/cm	1	BFE0415	05/19/22	05/19/22	EPA 120.1	

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

Date Sampled: **05/12/22 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BFE0414	05/19/22	05/19/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-8@4'
2205198-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/12/22 09:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	0.350	0.0100	mg/L	1	BFE0404	05/18/22	05/24/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/12/22 09:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.56	0.230	mg/kg dry	1	BFE0430	05/19/22	05/25/22	EPA 6020B	
Barium	59.4	0.460	"	"	"	"	"	"	
Cadmium	ND	0.230	"	"	"	"	"	"	
Copper	9.50	0.460	"	"	"	"	"	"	
Lead	8.59	0.230	"	"	"	"	"	"	
Nickel	16.0	0.460	"	"	"	"	"	"	
Selenium	0.630	0.299	"	"	"	"	"	"	
Silver	0.0287	0.0230	"	"	"	"	"	"	
Zinc	55.9	0.460	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/12/22 09:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0678	05/23/22	05/28/22	EPA 7196A	

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

Date Sampled: **05/12/22 09:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1030	0.0576	mg/L dry	1	BFE0413	05/19/22	05/21/22	EPA 6020B	
Magnesium	295	0.0576	"	"	"	"	"	"	
Sodium	421	0.0576	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-8@4'
2205198-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/12/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.98	0.00100	units	1	BFE0480	05/22/22	05/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/12/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BFE0354	05/17/22	05/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/12/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.556	0.0100	mmhos/cm	1	BFE0415	05/19/22	05/19/22	EPA 120.1	

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

Date Sampled: **05/12/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.00		pH Units	1	BFE0414	05/19/22	05/19/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-8@8'
2205198-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/12/22 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	0.376	0.0100	mg/L	1	BFE0404	05/18/22	05/24/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/12/22 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.69	0.232	mg/kg dry	1	BFE0430	05/19/22	05/25/22	EPA 6020B	
Barium	10.8	0.464	"	"	"	"	"	"	
Cadmium	ND	0.232	"	"	"	"	"	"	
Copper	7.19	0.464	"	"	"	"	"	"	
Lead	7.24	0.232	"	"	"	"	"	"	
Nickel	3.87	0.464	"	"	"	"	"	"	
Selenium	0.548	0.301	"	"	"	"	"	"	
Silver	ND	0.0232	"	"	"	"	"	"	
Zinc	39.5	0.464	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/12/22 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFE0678	05/23/22	05/28/22	EPA 7196A	

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

Date Sampled: **05/12/22 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	629	0.0580	mg/L dry	1	BFE0413	05/19/22	05/21/22	EPA 6020B	
Magnesium	407	0.0580	"	"	"	"	"	"	
Sodium	932	0.0580	"	"	"	"	"	"	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

BK-8@8'
2205198-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/12/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.12	0.00100	units	1	BFE0480	05/22/22	05/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/12/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BFE0354	05/17/22	05/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/12/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.21	0.0100	mmhos/cm	1	BFE0415	05/19/22	05/19/22	EPA 120.1	

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

Date Sampled: **05/12/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BFE0414	05/19/22	05/19/22	EPA 9045D	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

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

Summit Scientific

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

Batch BFE0404 - EPA 3050B

Blank (BFE0404-BLK1)

Prepared: 05/18/22 Analyzed: 05/24/22

Boron ND 0.0100 mg/L

LCS (BFE0404-BS1)

Prepared: 05/18/22 Analyzed: 05/24/22

Boron 5.52 0.0100 mg/L 5.00 110 80-120

Duplicate (BFE0404-DUP1)

Source: 2205197-01

Prepared: 05/18/22 Analyzed: 05/24/22

Boron 0.665 0.0100 mg/L 0.669 0.666 20

Matrix Spike (BFE0404-MS1)

Source: 2205197-01

Prepared: 05/18/22 Analyzed: 05/24/22

Boron 6.16 0.0100 mg/L 5.00 0.669 110 75-125

Matrix Spike Dup (BFE0404-MSD1)

Source: 2205197-01

Prepared: 05/18/22 Analyzed: 05/24/22

Boron 5.98 0.0100 mg/L 5.00 0.669 106 75-125 2.94 25

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFE0430 - EPA 3050B

Blank (BFE0430-BLK1)

Prepared: 05/19/22 Analyzed: 05/25/22

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 (BFE0430-BS1)

Prepared: 05/19/22 Analyzed: 05/25/22

Arsenic	41.7	0.200	mg/kg wet	40.0		104	80-120
Barium	44.2	0.400	"	40.0		110	80-120
Cadmium	2.17	0.200	"	2.00		108	80-120
Copper	39.9	0.400	"	40.0		99.6	80-120
Lead	21.3	0.200	"	20.0		106	80-120
Nickel	38.8	0.400	"	40.0		97.1	80-120
Selenium	3.93	0.260	"	4.00		98.4	80-120
Silver	2.13	0.0200	"	2.00		107	80-120
Zinc	42.6	0.400	"	40.0		107	80-120

Duplicate (BFE0430-DUP1)

Source: 2205034-05

Prepared: 05/19/22 Analyzed: 05/25/22

Arsenic	3.83	0.269	mg/kg dry	4.10		6.87	20
Barium	220	0.538	"	252		13.9	20
Cadmium	0.184	0.269	"	0.189		2.46	20
Copper	6.76	0.538	"	7.29		7.56	20
Lead	12.3	0.269	"	13.7		11.1	20
Nickel	5.26	0.538	"	5.41		2.72	20
Selenium	0.867	0.350	"	1.02		16.7	20
Silver	0.0513	0.0269	"	0.0579		12.1	20
Zinc	22.2	0.538	"	23.5		5.55	20

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFE0430 - EPA 3050B

Matrix Spike (BFE0430-MS1)

Source: 2205034-05

Prepared: 05/19/22 Analyzed: 05/25/22

Arsenic	60.3	0.269	mg/kg dry	53.8	4.10	105	75-125				
Barium	291	0.538	"	53.8	252	72.5	75-125				QM-02
Cadmium	3.28	0.269	"	2.69	0.189	115	75-125				
Copper	58.6	0.538	"	53.8	7.29	95.4	75-125				
Lead	40.4	0.269	"	26.9	13.7	99.2	75-125				
Nickel	58.4	0.538	"	53.8	5.41	98.4	75-125				
Selenium	5.90	0.350	"	5.38	1.02	90.6	75-125				
Silver	3.04	0.0269	"	2.69	0.0579	111	75-125				
Zinc	82.3	0.538	"	53.8	23.5	109	75-125				

Matrix Spike Dup (BFE0430-MSD1)

Source: 2205034-05

Prepared: 05/19/22 Analyzed: 05/25/22

Arsenic	61.2	0.269	mg/kg dry	53.8	4.10	106	75-125	1.47	25		
Barium	623	0.538	"	53.8	252	688	75-125	72.5	25		QM-02
Cadmium	3.07	0.269	"	2.69	0.189	107	75-125	6.92	25		
Copper	60.2	0.538	"	53.8	7.29	98.4	75-125	2.70	25		
Lead	39.8	0.269	"	26.9	13.7	97.0	75-125	1.45	25		
Nickel	60.1	0.538	"	53.8	5.41	102	75-125	2.87	25		
Selenium	6.21	0.350	"	5.38	1.02	96.3	75-125	5.05	25		
Silver	2.86	0.0269	"	2.69	0.0579	104	75-125	5.87	25		
Zinc	81.5	0.538	"	53.8	23.5	108	75-125	0.954	25		

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: RMF
Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/01/22 15:40

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFE0678 - 3060A Mod

Blank (BFE0678-BLK1)

Prepared: 05/23/22 Analyzed: 05/28/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFE0678-BS1)

Prepared: 05/23/22 Analyzed: 05/28/22

Chromium, Hexavalent 27.4 0.30 mg/kg wet 25.0 109 80-120

Duplicate (BFE0678-DUP1)

Source: 2205198-01

Prepared: 05/23/22 Analyzed: 05/28/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFE0678-MS1)

Source: 2205198-01

Prepared: 05/23/22 Analyzed: 05/28/22

Chromium, Hexavalent 29.1 0.30 mg/kg dry 27.3 ND 106 75-125

Matrix Spike Dup (BFE0678-MSD1)

Source: 2205198-01

Prepared: 05/23/22 Analyzed: 05/28/22

Chromium, Hexavalent 30.5 0.30 mg/kg dry 27.3 ND 112 75-125 4.77 20

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: RMF
 Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/01/22 15:40

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

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

Batch BFE0413 - General Preparation

Blank (BFE0413-BLK1)

Prepared: 05/19/22 Analyzed: 05/21/22

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

LCS (BFE0413-BS1)

Prepared: 05/19/22 Analyzed: 05/21/22

Calcium	5.39	0.0500	mg/L wet	5.00		108	70-130			
Magnesium	5.48	0.0500	"	5.00		110	70-130			
Sodium	5.31	0.0500	"	5.00		106	70-130			

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/01/22 15:40

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

Summit Scientific

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

Batch BFE0354 - General Preparation

Duplicate (BFE0354-DUP1)

Source: 2205197-01

Prepared & Analyzed: 05/17/22

% Solids	86.9		%		87.9			1.23		20	
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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: RMF
 Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/01/22 15:40

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

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

Batch BFE0415 - General Preparation

Blank (BFE0415-BLK1)

Prepared & Analyzed: 05/19/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFE0415-BS1)

Prepared & Analyzed: 05/19/22

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BFE0415-DUP1)

Source: 2205198-01

Prepared & Analyzed: 05/19/22

Specific Conductance (EC) 1.12 0.0100 mmhos/cm 1.16 3.43 20

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/01/22 15:40

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

Summit Scientific

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

Batch BFE0414 - General Preparation

LCS (BFE0414-BS1)

Prepared & Analyzed: 05/19/22

pH 9.11 pH Units 9.18 99.2 95-105

Duplicate (BFE0414-DUP1)

Source: 2205198-01

Prepared & Analyzed: 05/19/22

pH 8.42 pH Units 8.34 0.955 20

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.



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Project: RMF
Project Number: [none]
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Reported:
06/01/22 15:40

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