

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 08, 2024

Ryan Finley
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501
RE: Razor GL 2024 Release
Work Order #2408019

Enclosed are the results of analyses for samples received by Summit Scientific on 08/02/24 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury
President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Razor GL 2024 Release

Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS24@6.5	2408019-01	Soil	08/02/24 12:00	08/02/24 15:10
SS25@6.5	2408019-02	Soil	08/02/24 12:05	08/02/24 15:10
SS26@4.5	2408019-03	Soil	08/02/24 12:10	08/02/24 15:10
SS23@11.5	2408019-04	Soil	08/02/24 12:15	08/02/24 15:10

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.

Client: <u>Tallgrass/Entrada Consulting</u>		Send Data To:		Send Invoice To:	
Address: <u>ON File</u>		Project Manager: <u>Ryan Finley</u>		Company: <u>Entrada</u>	
City/State/Zip:		E-Mail: <u>rfinley@entradainc.com</u>		Project Name/Location: <u>Razor GL 2024</u>	
Phone: <u>303-907-0635</u>		Project Name: <u>Razor GL 2024 Release</u>		AFE#:	
Sampler Name: <u>Ryan Finley</u>		Project Number:		PO/Billing Codes:	
				Contact: <u>Stuart Hall</u>	

					Preservative				Matrix			Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Fluorene	1-methylnaph	EC, SAR	pH	Argenic, Barium	Cadmium	Lead	
1	5524@6.5	8/2/24	1200	2			X			X			X	X	X	X	X	X	X	X	
2	5525@6.5	↓	1205	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	
3	5526@4.5		1210																		
4	5523@11.5	↓	1215	↓						↓			↓	↓	↓	↓	↓	↓	↓	↓	
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/2/24 1510</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/2/24 15:10</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>17.9</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2408019Client: Tal/Grass/Entrada Client Project ID: Razor GL 2024 ReleaseShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 17.9Thermometer # 2

	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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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.				

Control Form #: SRC-001

Vh Vh
Custodian Printed Name

8/2/24 15:10
Date/Time



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release
Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

SS24@6.5
2408019-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0112	08/05/24	08/05/24	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	"	"	"	"	"	"	

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0405	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.6 %	50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Fluorene	ND	0.00500	mg/kg	1	BHH0097	08/05/24	08/05/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0147	44.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

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Total Metals by EPA 6020B

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.71	0.200	mg/kg dry	1	BHH0110	08/05/24	08/06/24	EPA 6020B	
Barium	318	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Lead	7.26	0.200	"	"	"	"	"	"	

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

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	198	0.0500	mg/L dry	1	BHH0116	08/05/24	08/06/24	EPA 6020B	
Magnesium	11.2	0.0500	"	"	"	"	"	"	
Sodium	72.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.35	0.00100	units	1	BHH0161	08/07/24	08/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.5		%	1	BHH0109	08/05/24	08/05/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.397	0.0100	mmhos/cm	1	BHH0117	08/05/24	08/06/24	EPA 120.1	

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SS24@6.5
2408019-01 (Soil)

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Date Sampled: **08/02/24 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.91			pH Units	1	BHH0118	08/05/24	08/06/24	EPA 9045D	

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Project: Razor GL 2024 Release

Project Number: 022-110
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Reported:
08/08/24 08:21

SS25@6.5
2408019-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0112	08/05/24	08/05/24	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	"	"	"	"	"	"	

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0454	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	97.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.8 %	50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Fluorene	ND	0.00500	mg/kg	1	BHH0097	08/05/24	08/05/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	57.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

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2408019-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.51	0.200	mg/kg dry	1	BHH0110	08/05/24	08/06/24	EPA 6020B	
Barium	289	0.400	"	"	"	"	"	"	
Cadmium	0.216	0.200	"	"	"	"	"	"	
Lead	9.96	0.200	"	"	"	"	"	"	

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

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	125	0.0500	mg/L dry	1	BHH0116	08/05/24	08/06/24	EPA 6020B	
Magnesium	11.0	0.0500	"	"	"	"	"	"	
Sodium	141	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.25	0.00100	units	1	BHH0161	08/07/24	08/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.0		%	1	BHH0109	08/05/24	08/05/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.739	0.0100	mmhos/cm	1	BHH0117	08/05/24	08/06/24	EPA 120.1	

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SS25@6.5
2408019-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Date Sampled: **08/02/24 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.62			pH Units	1	BHH0118	08/05/24	08/06/24	EPA 9045D	

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Project: Razor GL 2024 Release
Project Number: 022-110
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Reported:
08/08/24 08:21

SS26@4.5
2408019-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0112	08/05/24	08/05/24	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	"	"	"	"	"	"	

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0467	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0375	93.8 %	50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Fluorene	ND	0.00500	mg/kg	1	BHH0097	08/05/24	08/05/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

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Total Metals by EPA 6020B

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.03	0.200	mg/kg dry	1	BHH0110	08/05/24	08/06/24	EPA 6020B	
Barium	300	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Lead	8.04	0.200	"	"	"	"	"	"	

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

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	117	0.0500	mg/L dry	1	BHH0116	08/05/24	08/06/24	EPA 6020B	
Magnesium	12.1	0.0500	"	"	"	"	"	"	
Sodium	132	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.11	0.00100	units	1	BHH0161	08/07/24	08/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.6		%	1	BHH0109	08/05/24	08/05/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.652	0.0100	mmhos/cm	1	BHH0117	08/05/24	08/06/24	EPA 120.1	

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Date Sampled: **08/02/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.46			pH Units	1	BHH0118	08/05/24	08/06/24	EPA 9045D	

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08/08/24 08:21

SS23@11.5
2408019-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0112	08/05/24	08/06/24	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	"	"	"	"	"	"	

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0373	93.3 %	50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Fluorene	ND	0.00500	mg/kg	1	BHH0097	08/05/24	08/05/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release
Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

SS23@11.5
2408019-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.69	0.200	mg/kg dry	1	BHH0110	08/05/24	08/06/24	EPA 6020B	
Barium	273	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Lead	6.47	0.200	"	"	"	"	"	"	

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

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	191	0.0500	mg/L dry	1	BHH0116	08/05/24	08/06/24	EPA 6020B	
Magnesium	11.7	0.0500	"	"	"	"	"	"	
Sodium	126	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.39	0.00100	units	1	BHH0161	08/07/24	08/07/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.5		%	1	BHH0109	08/05/24	08/05/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.614	0.0100	mmhos/cm	1	BHH0117	08/05/24	08/06/24	EPA 120.1	

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240 Mesa Avenue
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Project: Razor GL 2024 Release

Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

SS23@11.5
2408019-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Date Sampled: **08/02/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.62			pH Units	1	BHH0118	08/05/24	08/06/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release

Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

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 BHH0112 - EPA 5030 Soil MS

Blank (BHH0112-BLK1)

Prepared & Analyzed: 08/05/24

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0437		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	50-150			

LCS (BHH0112-BS1)

Prepared & Analyzed: 08/05/24

Benzene	0.0706	0.0020	mg/kg	0.0750		94.1	70-130			
Toluene	0.0883	0.0050	"	0.0750		118	70-130			
Ethylbenzene	0.0865	0.0050	"	0.0750		115	70-130			
m,p-Xylene	0.171	0.010	"	0.150		114	70-130			
o-Xylene	0.0802	0.0050	"	0.0750		107	70-130			
1,2,4-Trimethylbenzene	0.0774	0.0050	"	0.0750		103	70-130			
1,3,5-Trimethylbenzene	0.0784	0.0050	"	0.0750		105	70-130			
Naphthalene	0.0585	0.0038	"	0.0750		78.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

Matrix Spike (BHH0112-MS1)

Source: 2408013-01

Prepared & Analyzed: 08/05/24

Benzene	0.0565	0.0020	mg/kg	0.0750	ND	75.3	70-130			
Toluene	0.0699	0.0050	"	0.0750	ND	93.2	70-130			
Ethylbenzene	0.0683	0.0050	"	0.0750	ND	91.1	70-130			
m,p-Xylene	0.136	0.010	"	0.150	ND	90.7	70-130			
o-Xylene	0.0651	0.0050	"	0.0750	ND	86.8	70-130			
1,2,4-Trimethylbenzene	0.0574	0.0050	"	0.0750	ND	76.6	70-130			
1,3,5-Trimethylbenzene	0.0574	0.0050	"	0.0750	ND	76.5	70-130			
Naphthalene	0.0468	0.0038	"	0.0750	ND	62.4	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release

Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

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 BHH0112 - EPA 5030 Soil MS

Matrix Spike Dup (BHH0112-MSD1)		Source: 2408013-01			Prepared & Analyzed: 08/05/24					
Benzene	0.0610	0.0020	mg/kg	0.0750	ND	81.3	70-130	7.71	30	
Toluene	0.0757	0.0050	"	0.0750	ND	101	70-130	7.91	30	
Ethylbenzene	0.0690	0.0050	"	0.0750	ND	92.0	70-130	1.05	30	
m,p-Xylene	0.139	0.010	"	0.150	ND	92.7	70-130	2.18	30	
o-Xylene	0.0659	0.0050	"	0.0750	ND	87.8	70-130	1.19	30	
1,2,4-Trimethylbenzene	0.0571	0.0050	"	0.0750	ND	76.1	70-130	0.629	30	
1,3,5-Trimethylbenzene	0.0576	0.0050	"	0.0750	ND	76.8	70-130	0.470	30	
Naphthalene	0.0478	0.0038	"	0.0750	ND	63.8	70-130	2.09	30	QM-07
Surrogate: 1,2-Dichloroethane-d4		0.0457	"	0.0400		114	50-150			
Surrogate: Toluene-d8		0.0421	"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene		0.0419	"	0.0400		105	50-150			

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release
Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

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 BHH0097 - EPA 5030 Soil MS

Blank (BHH0097-BLK1)

Prepared & Analyzed: 08/05/24

Fluorene	ND	0.00500	mg/kg								
1-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0177		"	0.0333		53.2		40-150			
Surrogate: Fluoranthene-d10	0.0221		"	0.0333		66.2		40-150			

LCS (BHH0097-BS1)

Prepared & Analyzed: 08/05/24

Fluorene	0.0225	0.00500	mg/kg	0.0333		67.6		30-120			
1-Methylnaphthalene	0.0181	0.00500	"	0.0333		54.4		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0196		"	0.0333		58.9		40-150			
Surrogate: Fluoranthene-d10	0.0228		"	0.0333		68.5		40-150			

Matrix Spike (BHH0097-MS1)

Source: 2408018-01

Prepared & Analyzed: 08/05/24

Fluorene	0.0158	0.00500	mg/kg	0.0333	ND	47.4		30-120			
1-Methylnaphthalene	0.0131	0.00500	"	0.0333	ND	39.3		15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0140		"	0.0333		41.9		40-150			
Surrogate: Fluoranthene-d10	0.0154		"	0.0333		46.2		40-150			

Matrix Spike Dup (BHH0097-MSD1)

Source: 2408018-01

Prepared & Analyzed: 08/05/24

Fluorene	0.0163	0.00500	mg/kg	0.0333	ND	49.0		30-120	3.27	30	
1-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.4		15-130	9.75	50	
Surrogate: 2-Methylnaphthalene-d10	0.0146		"	0.0333		43.7		40-150			
Surrogate: Fluoranthene-d10	0.0161		"	0.0333		48.3		40-150			

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release
Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

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 BHH0110 - EPA 3050B

Blank (BHH0110-BLK1)

Prepared: 08/05/24 Analyzed: 08/06/24

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Lead	ND	0.200	"

LCS (BHH0110-BS1)

Prepared: 08/05/24 Analyzed: 08/06/24

Arsenic	34.1	0.200	mg/kg wet	37.3	91.4	80-120
Barium	34.1	0.400	"	37.3	91.5	80-120
Cadmium	1.76	0.200	"	1.87	94.2	80-120
Lead	18.7	0.200	"	18.7	100	80-120

Duplicate (BHH0110-DUP1)

Source: 2406098-01

Prepared: 08/05/24 Analyzed: 08/06/24

Arsenic	1.73	0.200	mg/kg dry	1.78	2.73	20
Barium	59.3	0.400	"	57.6	2.96	20
Cadmium	0.0861	0.200	"	0.0785	9.28	20
Lead	4.96	0.200	"	4.53	9.01	20

Matrix Spike (BHH0110-MS1)

Source: 2406098-01

Prepared: 08/05/24 Analyzed: 08/06/24

Arsenic	35.9	0.200	mg/kg dry	38.5	1.78	88.8	75-125
Barium	91.2	0.400	"	38.5	57.6	87.5	75-125
Cadmium	1.85	0.200	"	1.92	0.0785	92.3	75-125
Lead	22.2	0.200	"	19.2	4.53	91.8	75-125

Matrix Spike Dup (BHH0110-MSD1)

Source: 2406098-01

Prepared: 08/05/24 Analyzed: 08/06/24

Arsenic	36.1	0.200	mg/kg dry	38.2	1.78	90.0	75-125	0.582	25
Barium	91.8	0.400	"	38.2	57.6	89.8	75-125	0.648	25
Cadmium	1.87	0.200	"	1.91	0.0785	93.6	75-125	0.570	25
Lead	22.6	0.200	"	19.1	4.53	94.6	75-125	1.80	25

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release

Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

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 BHH0116 - General Preparation

Blank (BHH0116-BLK1)

Prepared: 08/05/24 Analyzed: 08/06/24

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

LCS (BHH0116-BS1)

Prepared: 08/05/24 Analyzed: 08/06/24

Calcium	6.12	0.0500	mg/L wet	5.00	122	70-130
Magnesium	5.62	0.0500	"	5.00	112	70-130
Sodium	5.74	0.0500	"	5.00	115	70-130

Summit Scientific

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240 Mesa Avenue
Grand Junction. CO, 81501

Project: Razor GL 2024 Release

Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

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 BHH0109 - General Preparation

Duplicate (BHH0109-DUP1)		Source: 2408013-01			Prepared & Analyzed: 08/05/24					
% Solids	88.0		%		87.7		0.306		20	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Razor GL 2024 Release
Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

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 BHH0117 - General Preparation

Blank (BHH0117-BLK1)

Prepared: 08/05/24 Analyzed: 08/06/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHH0117-BS1)

Prepared: 08/05/24 Analyzed: 08/06/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHH0117-DUP1)

Source: 2408018-01

Prepared: 08/05/24 Analyzed: 08/06/24

Specific Conductance (EC) 0.241 0.0100 mmhos/cm 0.246 1.93 20

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Razor GL 2024 Release

Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

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

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

Batch BHH0118 - General Preparation

LCS (BHH0118-BS1)					Prepared: 08/05/24 Analyzed: 08/06/24					
pH	9.18		pH Units	9.18		100	95-105			
Duplicate (BHH0118-DUP1)					Source: 2408018-01 Prepared: 08/05/24 Analyzed: 08/06/24					
pH	8.57		pH Units	8.62			0.582		20	



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: Razor GL 2024 Release

Project Number: 022-110
Project Manager: Ryan Finley

Reported:
08/08/24 08:21

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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