

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 19, 2024

Ryan Finley

Entrada Consulting Group

240 Mesa Avenue

Grand Junction., CO 81501

RE: Razor GL 2024 Release-1

Work Order #2407250

Enclosed are the results of analyses for samples received by Summit Scientific on 07/19/24 17:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



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

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS21@6.5	2407250-01	Soil	07/18/24 14:30	07/19/24 17:04
SS23@11	2407250-02	Soil	07/18/24 14:40	07/19/24 17:04
SS24@6	2407250-03	Soil	07/18/24 14:50	07/19/24 17:04
SS25@6	2407250-04	Soil	07/18/24 15:00	07/19/24 17:04

Case Narrative

Reported analytes have been corrected to match COC on 8/19/2024.

This is a revision of the report originally sent on 7/25/2024 at 13:13 MT.

Summit Scientific

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Client: Tallgrass/Entrada Consulting		Send Data To:		Send Invoice To:	
Address: ON File		Project Manager: Ryan Finley		Company: Entrada	
City/State/Zip:		E-Mail: Rfinley@entradainc.com		Project Name/Location: Razor GL 2024 Release	
Phone: 303-907-0635		Project Name: Razor GL 2024 Release		AFE#:	
Sampler Name: Ryan Finley		Project Number: 024-131		PO/Billing Codes: 024-131	
				Contact: Stuart Hall	

					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	Arsenic, barium	Cadmium, lead	
1	SS21 @ 0.5 ft	7/18/24	1430	2			X			X			X	X	X	X	X	X	X	
2	SS23 @ 11	↓	1440	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	
3	SS24 @ 6	↓	1450	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	
4	SS25 @ 6	↓	1500	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time: 7/19/24	Received by:	Date/Time: 7/19/24 17:04	TAT Business Days	Field DO	Notes: Rush inorganics Full results by 7/24
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 5-8	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2407250Client: Entrada Client Project ID: Ruzor 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) 5.8Thermometer # 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"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no relinquish times
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 type="checkbox"/>	<input checked="" 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.				

AS
Custodian Printed Name

7/19/24
Date/Time



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

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS21@6.5
2407250-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHG0553	07/19/24	07/20/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0429	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.4 %	50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Fluorene	ND	0.00500	mg/kg	1	BHG0564	07/22/24	07/23/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0160	48.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0167	50.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.43	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	

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Total Metals by EPA 6020B

Barium	226	0.400	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B
Cadmium	0.215	0.200	"	"	"	"	"	"
Lead	10.4	0.200	"	"	"	"	"	"

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

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	255	0.0500	mg/L dry	1	BHG0568	07/22/24	07/22/24	EPA 6020B	
Magnesium	14.2	0.0500	"	"	"	"	"	"	
Sodium	9.69	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.160	0.00100	units	1	BHG0651	07/23/24	07/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHG0562	07/22/24	07/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.240	0.0100	mmhos/cm	1	BHG0571	07/22/24	07/22/24	EPA 120.1	

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

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SS21@6.5
2407250-01 (Soil)

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

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.47			pH Units	1	BHG0560	07/22/24	07/23/24	EPA 9045D	

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240 Mesa Avenue
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Project: Razor GL 2024 Release-1
Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS23@11
2407250-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHG0553	07/19/24	07/20/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0426	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.7 %	50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Fluorene	ND	0.00500	mg/kg	1	BHG0564	07/22/24	07/23/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.84	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Barium	46.5	0.400	"	"	"	"	"	"	

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SS23@11
2407250-02 (Soil)

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Total Metals by EPA 6020B

Cadmium	ND	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B
Lead	4.12	0.200	"	"	"	"	"	"

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

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	392	0.0500	mg/L dry	1	BHG0568	07/22/24	07/22/24	EPA 6020B	
Magnesium	70.9	0.0500	"	"	"	"	"	"	
Sodium	519	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.34	0.00100	units	1	BHG0651	07/23/24	07/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.5		%	1	BHG0562	07/22/24	07/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.98	0.0100	mmhos/cm	1	BHG0571	07/22/24	07/22/24	EPA 120.1	

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

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08/19/24 08:48

SS23@11
2407250-02 (Soil)

Summit Scientific

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

Date Sampled: 07/18/24 14:40									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.61		pH Units	1	BHG0560	07/22/24	07/23/24	EPA 9045D	

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240 Mesa Avenue
Grand Junction. CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS24@6
2407250-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHG0553	07/19/24	07/20/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %	50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Fluorene	ND	0.00500	mg/kg	1	BHG0564	07/22/24	07/23/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0149	44.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.95	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Barium	279	0.400	"	"	"	"	"	"	

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SS24@6
2407250-03 (Soil)

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Total Metals by EPA 6020B

Cadmium	0.306	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B
Lead	11.3	0.200	"	"	"	"	"	"

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

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	152	0.0500	mg/L dry	1	BHG0568	07/22/24	07/22/24	EPA 6020B	
Magnesium	16.5	0.0500	"	"	"	"	"	"	
Sodium	67.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BHG0651	07/23/24	07/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.5		%	1	BHG0562	07/22/24	07/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.601	0.0100	mmhos/cm	1	BHG0571	07/22/24	07/22/24	EPA 120.1	

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

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SS24@6
2407250-03 (Soil)

Summit Scientific

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

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.66			pH Units	1	BHG0560	07/22/24	07/23/24	EPA 9045D	

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Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS25@6
2407250-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHG0553	07/19/24	07/20/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0377	94.3 %	50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Fluorene	ND	0.00500	mg/kg	1	BHG0564	07/22/24	07/24/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.85	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Barium	129	0.400	"	"	"	"	"	"	

Summit Scientific

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

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS25@6
2407250-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Cadmium	ND	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B
Lead	6.80	0.200	"	"	"	"	"	"

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

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	687	0.0500	mg/L dry	1	BHG0568	07/22/24	07/22/24	EPA 6020B	
Magnesium	43.5	0.0500	"	"	"	"	"	"	
Sodium	176	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.76	0.00100	units	1	BHG0651	07/23/24	07/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	1	BHG0562	07/22/24	07/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.827	0.0100	mmhos/cm	1	BHG0571	07/22/24	07/22/24	EPA 120.1	

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

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240 Mesa Avenue
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Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS25@6
2407250-04 (Soil)

Summit Scientific

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

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	9.17			pH Units	1	BHG0560	07/22/24	07/23/24	EPA 9045D	

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

Project: Razor GL 2024 Release-1
Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHG0553 - EPA 5030 Soil MS

Blank (BHG0553-BLK1)

Prepared: 07/19/24 Analyzed: 07/20/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

LCS (BHG0553-BS1)

Prepared: 07/19/24 Analyzed: 07/20/24

Benzene	0.0799	0.0020	mg/kg	0.100		79.9	70-130			
Toluene	0.0927	0.0050	"	0.100		92.7	70-130			
Ethylbenzene	0.0897	0.0050	"	0.100		89.7	70-130			
m,p-Xylene	0.188	0.010	"	0.200		93.9	70-130			
o-Xylene	0.0945	0.0050	"	0.100		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.5	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.4	50-150			

Matrix Spike (BHG0553-MS1)

Source: 2407248-01

Prepared: 07/19/24 Analyzed: 07/20/24

Benzene	0.0533	0.0020	mg/kg	0.100	ND	53.3	70-130			QM-05
Toluene	0.0674	0.0050	"	0.100	ND	67.4	70-130			QM-05
Ethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	70-130			
m,p-Xylene	0.135	0.010	"	0.200	ND	67.3	70-130			QM-05
o-Xylene	0.0792	0.0050	"	0.100	ND	79.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0450		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.7	50-150			

Summit Scientific

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240 Mesa Avenue
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Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHG0553 - EPA 5030 Soil MS

Matrix Spike Dup (BHG0553-MSD1)	Source: 2407248-01			Prepared: 07/19/24 Analyzed: 07/20/24						
Benzene	0.0506	0.0020	mg/kg	0.100	ND	50.6	70-130	5.08	30	QM-05
Toluene	0.0663	0.0050	"	0.100	ND	66.3	70-130	1.53	30	QM-05
Ethylbenzene	0.0784	0.0050	"	0.100	ND	78.4	70-130	3.90	30	
m,p-Xylene	0.121	0.010	"	0.200	ND	60.4	70-130	10.7	30	QM-05
o-Xylene	0.0808	0.0050	"	0.100	ND	80.8	70-130	2.06	30	
Surrogate: 1,2-Dichloroethane-d4	0.0440		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

Summit Scientific

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Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1
Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHG0564 - EPA 5030 Soil MS

Blank (BHG0564-BLK1)

Prepared: 07/22/24 Analyzed: 07/23/24

Fluorene	ND	0.00500	mg/kg							
1-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0261		"	0.0333		78.3	40-150			
Surrogate: Fluoranthene-d10	0.0261		"	0.0333		78.3	40-150			

LCS (BHG0564-BS1)

Prepared: 07/22/24 Analyzed: 07/23/24

Fluorene	0.0245	0.00500	mg/kg	0.0333		73.6	30-120			
1-Methylnaphthalene	0.0222	0.00500	"	0.0333		66.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.6	40-150			
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.1	40-150			

Matrix Spike (BHG0564-MS1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

Fluorene	0.0173	0.00500	mg/kg	0.0333	ND	51.9	30-120			
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0141		"	0.0333		42.3	40-150			
Surrogate: Fluoranthene-d10	0.0153		"	0.0333		45.9	40-150			

Matrix Spike Dup (BHG0564-MSD1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

Fluorene	0.0175	0.00500	mg/kg	0.0333	ND	52.6	30-120	1.43	30	
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130	8.66	50	
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0333		46.3	40-150			
Surrogate: Fluoranthene-d10	0.0163		"	0.0333		49.0	40-150			

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

Project: Razor GL 2024 Release-1
Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHG0589 - EPA 3050B

Blank (BHG0589-BLK1)

Prepared: 07/22/24 Analyzed: 07/23/24

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

LCS (BHG0589-BS1)

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	36.0	0.200	mg/kg wet	37.6	95.7	80-120
Barium	44.0	0.400	"	37.6	117	80-120
Cadmium	1.78	0.200	"	1.88	94.5	80-120
Lead	17.6	0.200	"	18.8	93.5	80-120

Duplicate (BHG0589-DUP1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	3.75	0.200	mg/kg dry	3.43		9.02	20
Barium	233	0.400	"	226		2.92	20
Cadmium	0.222	0.200	"	0.215		3.40	20
Lead	11.4	0.200	"	10.4		9.12	20

Matrix Spike (BHG0589-MS1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	45.8	0.200	mg/kg dry	43.4	3.43	97.5	75-125
Barium	276	0.400	"	43.4	226	116	75-125
Cadmium	2.37	0.200	"	2.17	0.215	99.2	75-125
Lead	31.3	0.200	"	21.7	10.4	96.1	75-125

Matrix Spike Dup (BHG0589-MSD1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	44.1	0.200	mg/kg dry	43.8	3.43	92.8	75-125	3.75	25
Barium	264	0.400	"	43.8	226	86.6	75-125	4.59	25
Cadmium	2.37	0.200	"	2.19	0.215	98.5	75-125	0.0972	25
Lead	30.5	0.200	"	21.9	10.4	91.5	75-125	2.73	25

Summit Scientific

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240 Mesa Avenue
Grand Junction. CO, 81501

Project: Razor GL 2024 Release-1
Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHH0024 - EPA 3050B

Blank (BHH0024-BLK1)

Prepared: 08/01/24 Analyzed: 08/06/24

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

LCS (BHH0024-BS1)

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	39.8	0.200	mg/kg wet	36.5	109	80-120
Barium	37.9	0.400	"	36.5	104	80-120
Cadmium	1.95	0.200	"	1.82	107	80-120
Lead	19.0	0.200	"	18.2	104	80-120

Duplicate (BHH0024-DUP1)

Source: 2406303-07RE1

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	5.24	0.200	mg/kg wet	4.46		16.0	20	
Barium	238	0.400	"	91.9		88.4	20	QR-02
Cadmium	0.316	0.200	"	0.256		21.1	20	QR-01
Lead	9.62	0.200	"	8.37		13.9	20	

Matrix Spike (BHH0024-MS1)

Source: 2406303-07RE1

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	43.6	0.181	mg/kg wet	36.2	4.46	108	75-125	
Barium	219	0.362	"	36.2	91.9	351	75-125	QM-07
Cadmium	2.26	0.181	"	1.81	0.256	110	75-125	
Lead	27.0	0.181	"	18.1	8.37	103	75-125	

Matrix Spike Dup (BHH0024-MSD1)

Source: 2406303-07RE1

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	45.5	0.200	mg/kg wet	38.5	4.46	107	75-125	4.32	25	
Barium	180	0.400	"	38.5	91.9	229	75-125	19.7	25	QM-07
Cadmium	2.36	0.200	"	1.92	0.256	110	75-125	4.61	25	
Lead	28.9	0.200	"	19.2	8.37	107	75-125	6.85	25	

Summit Scientific

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Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1
Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHG0568 - General Preparation

Blank (BHG0568-BLK1)

Prepared & Analyzed: 07/22/24

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

LCS (BHG0568-BS1)

Prepared & Analyzed: 07/22/24

Calcium	5.17	0.0500	mg/L wet	5.00	103	70-130
Magnesium	5.51	0.0500	"	5.00	110	70-130
Sodium	5.76	0.0500	"	5.00	115	70-130

Batch BHH0297 - General Preparation

Blank (BHH0297-BLK1)

Prepared: 08/12/24 Analyzed: 08/14/24

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

LCS (BHH0297-BS1)

Prepared: 08/12/24 Analyzed: 08/14/24

Calcium	5.75	0.0500	mg/L wet	5.00	115	70-130
Magnesium	4.69	0.0500	"	5.00	93.8	70-130
Sodium	4.61	0.0500	"	5.00	92.2	70-130

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Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHG0562 - General Preparation

Duplicate (BHG0562-DUP1)		Source: 2407248-01			Prepared: 07/22/24 Analyzed: 07/23/24					
% Solids	75.5		%		75.8			0.419	20	

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Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHG0571 - General Preparation

Blank (BHG0571-BLK1)					Prepared & Analyzed: 07/22/24					
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BHG0571-BS1)					Prepared & Analyzed: 07/22/24					
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	0.150	104	95-105				
Duplicate (BHG0571-DUP1)					Source: 2407248-01 Prepared & Analyzed: 07/22/24					
Specific Conductance (EC)	3.24	0.0100	mmhos/cm	3.30				2.02	20	

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Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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

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

Batch BHG0560 - General Preparation

LCS (BHG0560-BS1)					Prepared: 07/22/24 Analyzed: 07/23/24					
pH	9.12		pH Units	9.18	99.3		95-105			
Duplicate (BHG0560-DUP1)					Source: 2407250-01 Prepared: 07/22/24 Analyzed: 07/23/24					
pH	8.57		pH Units	8.47				1.17	20	

Batch BHH0114 - General Preparation

LCS (BHH0114-BS1)					Prepared: 08/05/24 Analyzed: 08/06/24					
pH	9.24		pH Units	9.18	101		95-105			
Duplicate (BHH0114-DUP1)					Source: 2407407-01 Prepared: 08/05/24 Analyzed: 08/06/24					
pH	8.66		pH Units	8.64				0.231	20	

Batch BHH0138 - General Preparation

LCS (BHH0138-BS1)					Prepared: 08/06/24 Analyzed: 08/07/24					
pH	9.18		pH Units	9.18	100		95-105			
Duplicate (BHH0138-DUP1)					Source: 2407250-02RE1 Prepared: 08/06/24 Analyzed: 08/07/24					
pH	9.59		pH Units	9.61				0.208	20	

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Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
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.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference