

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 30, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Huntsman G 13-9 (BKG)

Work Order #2401385

Enclosed are the results of analyses for samples received by Summit Scientific on 01/23/24 15:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a small "w" at the end of the last name.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

**Reported:**  
01/30/24 10:52

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG06@4.0'	2401385-01	Soil	01/23/24 00:00	01/23/24 15:04

Summit Scientific

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# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID 2401385 Page 1 of 1

Client: <u>Fremont Env</u>		Send Data To: Project Manager: <u>Paul Henehan</u>		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: <u>Paulh@fremontenv.com</u>		Project Name/Location: <u>Huntman G 13-9</u>	
City/State/Zip:		<u>jeff@fremontenv.com Ethamb@fremontenv.com</u>		AFE#:	
Phone:		Project Name: <u>Huntman G 13-9 (BK6)</u>		PO/Billing Codes: <u>UWRWE-A3502-ABN</u>	
Sampler Name: <u>JG</u>		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC, pH, SAR, Boron	Metals (915)						
1	BK60604.0'	01/23/24		1			X			X			X	X						
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>01/23/24 1504</u>	Received by: <u>Joh Vd</u>	Date/Time: <u>1/23/24 15:04</u>	TAT Business Days	Field DO	Notes:  <u>Bill to Noble</u>
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <u>15.7</u>	Corrected Temperature	IR gun #:	<u>2</u>	HNO3 lot #:		

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2401385

Client: Fremont Client Project ID: Huntsman 6 13-9 (8KG)

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

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

Temp (°C) 15.7 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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"/>	
<u>Additional Comments (if any):</u>				

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

J. Wald  
Custodian Printed Name

1/23/24 15:04  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/30/24 10:52

**BKG06@4.0'**  
**2401385-01 (Soil)**

Summit Scientific

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0844	01/24/24	01/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	8.14	0.200		mg/kg dry	1	BHA0823	01/24/24	01/25/24	EPA 6020B	
Barium	42.7	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.32	0.400		"	"	"	"	"	"	
Lead	4.95	0.200		"	"	"	"	"	"	
Nickel	2.46	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	16.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0846	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	66.1	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	121	0.0500		"	"	"	"	"	"	
Sodium	310	0.0500		"	"	"	"	"	"	

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Project: Noble - Huntsman G 13-9 (BKG)

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 Project Manager: Paul Henchan

**Reported:**  
 01/30/24 10:52

**BKG06@4.0'**  
**2401385-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.24	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BHA0824	01/24/24	01/24/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.11	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/30/24 10:52

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

**Summit Scientific**

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

**Batch BHA0844 - EPA 3050B**

<b>Blank (BHA0844-BLK1)</b>				Prepared: 01/24/24 Analyzed: 01/25/24							
Boron	ND	2.00	mg/L								
<b>LCS (BHA0844-BS1)</b>				Prepared: 01/24/24 Analyzed: 01/25/24							
Boron	4.60	2.00	mg/L	5.00		92.1	80-120				
<b>Duplicate (BHA0844-DUP1)</b>				<b>Source: 2401365-01</b>				Prepared: 01/24/24 Analyzed: 01/25/24			
Boron	ND	2.00	mg/L		ND					20	
<b>Matrix Spike (BHA0844-MS1)</b>				<b>Source: 2401365-01</b>				Prepared: 01/24/24 Analyzed: 01/25/24			
Boron	5.18	2.00	mg/L	5.00	ND	104	75-125				
<b>Matrix Spike Dup (BHA0844-MSD1)</b>				<b>Source: 2401365-01</b>				Prepared: 01/24/24 Analyzed: 01/25/24			
Boron	4.91	2.00	mg/L	5.00	ND	98.1	75-125	5.54		25	

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Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/30/24 10:52

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHA0823 - EPA 3050B**

**Blank (BHA0823-BLK1)**

Prepared: 01/24/24 Analyzed: 01/25/24

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	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BHA0823-BS1)**

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	33.3	0.200	mg/kg wet	40.0	83.1	80-120
Barium	33.0	0.400	"	40.0	82.5	80-120
Cadmium	1.64	0.200	"	2.00	82.0	80-120
Copper	34.6	0.400	"	40.0	86.4	80-120
Lead	16.3	0.200	"	20.0	81.3	80-120
Nickel	34.3	0.400	"	40.0	85.8	80-120
Silver	1.67	0.0200	"	2.00	83.4	80-120
Zinc	34.7	0.400	"	40.0	86.7	80-120
Selenium	3.41	0.260	"	4.00	85.2	80-120

**Duplicate (BHA0823-DUP1)**

Source: 2401364-01

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	0.869	0.200	mg/kg dry	0.846	2.67	20
Barium	17.5	0.400	"	19.4	10.1	20
Cadmium	0.0753	0.200	"	0.0717	5.01	20
Copper	1.66	0.400	"	1.50	9.95	20
Lead	2.48	0.200	"	2.48	0.00	20
Nickel	1.47	0.400	"	1.41	4.43	20
Silver	0.00614	0.0200	"	0.00778	23.5	20
Zinc	6.62	0.400	"	6.70	1.13	20
Selenium	ND	0.260	"	ND		20

QR-01

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Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/30/24 10:52

**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 BHA0823 - EPA 3050B**

**Matrix Spike (BHA0823-MS1)**

Source: 2401364-01

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	33.2	0.200	mg/kg dry	40.9	0.846	79.1	75-125				
Barium	50.8	0.400	"	40.9	19.4	76.8	75-125				
Cadmium	1.64	0.200	"	2.05	0.0717	76.7	75-125				
Copper	30.5	0.400	"	40.9	1.50	70.8	75-125				QM-05
Lead	18.3	0.200	"	20.5	2.48	77.3	75-125				
Nickel	30.1	0.400	"	40.9	1.41	70.1	75-125				QM-05
Silver	1.59	0.0200	"	2.05	0.00778	77.1	75-125				
Zinc	36.3	0.400	"	40.9	6.70	72.2	75-125				QM-05
Selenium	3.07	0.260	"	4.09	ND	75.1	75-125				

**Matrix Spike Dup (BHA0823-MSD1)**

Source: 2401364-01

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	33.2	0.200	mg/kg dry	40.9	0.846	78.9	75-125	0.187	25		
Barium	50.1	0.400	"	40.9	19.4	75.1	75-125	1.42	25		
Cadmium	1.64	0.200	"	2.05	0.0717	76.5	75-125	0.250	25		
Copper	30.2	0.400	"	40.9	1.50	70.1	75-125	0.912	25		QM-05
Lead	18.2	0.200	"	20.5	2.48	76.6	75-125	0.723	25		
Nickel	30.1	0.400	"	40.9	1.41	70.0	75-125	0.132	25		QM-05
Silver	1.57	0.0200	"	2.05	0.00778	76.5	75-125	0.829	25		
Zinc	35.4	0.400	"	40.9	6.70	70.1	75-125	2.35	25		QM-05
Selenium	3.16	0.260	"	4.09	ND	77.2	75-125	2.73	25		

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/30/24 10:52

**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 BHA0846 - 3060A Mod**

**Blank (BHA0846-BLK1)**

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BHA0846-BS1)**

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent      22.6      0.30 mg/kg wet      25.0      90.6      80-120

**Duplicate (BHA0846-DUP1)**

**Source: 2311401-01**

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BHA0846-MS1)**

**Source: 2311401-01**

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent      25.2      0.30 mg/kg dry      27.4      ND      92.2      75-125

**Matrix Spike Dup (BHA0846-MSD1)**

**Source: 2311401-01**

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent      25.3      0.30 mg/kg dry      27.4      ND      92.4      75-125      0.217      20

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Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/30/24 10:52

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

**Summit Scientific**

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

**Batch BHA0899 - General Preparation**

**Blank (BHA0899-BLK1)**

Prepared: 01/25/24 Analyzed: 01/26/24

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

**LCS (BHA0899-BS1)**

Prepared: 01/25/24 Analyzed: 01/26/24

Calcium	5.71	0.0500	mg/L wet	5.00		114	70-130			
Magnesium	5.54	0.0500	"	5.00		111	70-130			
Sodium	5.40	0.0500	"	5.00		108	70-130			

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Project: Noble - Huntsman G 13-9 (BKG)

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 01/30/24 10:52

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

**Summit Scientific**

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

**Batch BHA0824 - General Preparation**


**Duplicate (BHA0824-DUP1)**

**Source: 2312187-24**

**Prepared & Analyzed: 01/24/24**

% Solids	89.9		%		90.4			0.539	20	
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Project: Noble - Huntsman G 13-9 (BKG)

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 01/30/24 10:52

**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 BHA0923 - General Preparation**

**Blank (BHA0923-BLK1)**

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHA0923-BS1)**

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105

**Duplicate (BHA0923-DUP1)**

Source: 2401383-01

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) 0.663 0.0100 mmhos/cm 0.678 2.31 20

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Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN  
 Project Manager: Paul Henchan

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 01/30/24 10:52

**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 BHA0922 - General Preparation**

**LCS (BHA0922-BS1)**

Prepared & Analyzed: 01/26/24

pH 9.30 pH Units 9.18 101 95-105

**Duplicate (BHA0922-DUP1)**

Source: 2401383-01

Prepared & Analyzed: 01/26/24

pH 6.35 pH Units 6.42 1.10 20

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Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/30/24 10:52

### Notes and Definitions

- 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-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