

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 31, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Huntsman (Backgrounds)

Work Order #2401383

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 large initial "J" and "W".

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:
01/31/24 10:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0"	2401383-01	Soil	01/23/24 00:00	01/23/24 15:04
BKG01@4.0'	2401383-02	Soil	01/23/24 00:00	01/23/24 15:04
BKG01@5.0'	2401383-03	Soil	01/23/24 00:00	01/23/24 15:04
BKG02@6.0"	2401383-04	Soil	01/23/24 00:00	01/23/24 15:04
BKG02@4.0'	2401383-05	Soil	01/23/24 00:00	01/23/24 15:04
BKG02@5.0'	2401383-06	Soil	01/23/24 00:00	01/23/24 15:04
BKG03@6.0"	2401383-07	Soil	01/23/24 00:00	01/23/24 15:04
BKG03@4.0'	2401383-08	Soil	01/23/24 00:00	01/23/24 15:04
BKG03@5.0'	2401383-09	Soil	01/23/24 00:00	01/23/24 15:04
BKG04@6.0"	2401383-10	Soil	01/23/24 00:00	01/23/24 15:04
BKG04@4.0'	2401383-11	Soil	01/23/24 00:00	01/23/24 15:04
BKG04@5.0'	2401383-12	Soil	01/23/24 00:00	01/23/24 15:04
BKG05@6.0"	2401383-13	Soil	01/23/24 00:00	01/23/24 15:04
BKG05@4.0'	2401383-14	Soil	01/23/24 00:00	01/23/24 15:04
BKG05@5.0'	2401383-15	Soil	01/23/24 00:00	01/23/24 15:04

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

Lab ID	Page 1 of 1
2401383	

Client: Fremont Env		Project Manager: Paul Henehan		Company: Noble	
Address:		E-Mail: Paulh@fremontenv.com		Project Name/Location: Huntsmen 6 13-9	
City/State/Zip:		jeff@fremontenv.com Ethen@fremontenv.com		AFE#:	
Phone:		Project Name: Huntsmen (Backgrounds)		PO/Billing Codes: UWRWE - A3502-ABN	
Sampler Name: J6		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested					Special Instructions
					HCl	HNO3	None	Other	Water	Soil			EC, PH, SAR, Boron	Metals (915)				
1	BK601@6.0"	01/23/24		1			X			X		X	X					
2	BK601@4.0'																	
3	BK601@5.0'																	
4	BK602@6.0"																	
5	BK602@4.0'																	
6	BK602@5.0'																	
7	BK603@6.0"																	
8	BK603@4.0'																	
9	BK603@5.0'																	
10	BK604@6.0"																	
11	BK604@4.0'																	
12	BK604@5.0'																	
13	BK605@6.0"																	
14	BK605@4.0'																	
15	BK605@5.0'																	

Relinquished by: 	Date/Time: 01/23/24 1504	Received by: John Wil	Date/Time: 1/23/24 15:04	TAT Business Days	Field DO	Notes: Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 13.9	Corrected Temperature:	IR gun #: 2	HNO3 lot #:	Standard	X Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2401383

Client: Fremont Client Project ID: Huntman (Backgrounds)

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

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

Temp (°C) 13.9 Thermometer # 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 file
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 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? ⁽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"/>	
<u>Additional Comments (if any):</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Van Wel
Custodian Printed Name

1/23/24 15:04
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG01@6.0"
2401383-01 (Soil)

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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	BHA0852	01/24/24	01/26/24	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	3.28	0.200		mg/kg dry	1	BHA1007	01/29/24	01/30/24	EPA 6020B	
Barium	89.1	0.400		"	"	"	"	"	"	
Cadmium	0.309	0.200		"	"	"	"	"	"	
Copper	5.90	0.400		"	"	"	"	"	"	
Lead	10.2	0.200		"	"	"	"	"	"	
Nickel	5.30	0.400		"	"	"	"	"	"	
Silver	0.0380	0.0200		"	"	"	"	"	"	
Zinc	22.0	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	BHA0849	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	96.0	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	33.7	0.0500		"	"	"	"	"	"	
Sodium	2.44	0.0500		"	"	"	"	"	"	

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Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG01@6.0"
2401383-01 (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	0.0546	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	94.8		%	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)	0.678	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	6.42		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG01@4.0'
2401383-02 (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	BHA0852	01/24/24	01/26/24	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	5.46	0.200		mg/kg dry	1	BHA1007	01/29/24	01/30/24	EPA 6020B	
Barium	171	0.400		"	"	"	"	"	"	
Cadmium	0.415	0.200		"	"	"	"	"	"	
Copper	5.63	0.400		"	"	"	"	"	"	
Lead	10.9	0.200		"	"	"	"	"	"	
Nickel	7.31	0.400		"	"	"	"	"	"	
Silver	0.0398	0.0200		"	"	"	"	"	"	
Zinc	23.2	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	BHA0849	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	8550	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	389	0.0500		"	"	"	"	"	"	
Sodium	102	0.0500		"	"	"	"	"	"	

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Project: Noble - Huntsman (Backgrounds)
 Project Number: UWRWE-A3502-ABN
 Project Manager: Paul Henchan

Reported:
 01/31/24 10:41

BKG01@4.0'
2401383-02 (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	0.293	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	90.4		%	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)	0.709	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	8.67		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG01@5.0'
2401383-03 (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	BHA0852	01/24/24	01/26/24	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	5.23	0.200		mg/kg dry	1	BHA1007	01/29/24	01/30/24	EPA 6020B	
Barium	120	0.400		"	"	"	"	"	"	
Cadmium	0.366	0.200		"	"	"	"	"	"	
Copper	5.93	0.400		"	"	"	"	"	"	
Lead	11.8	0.200		"	"	"	"	"	"	
Nickel	7.15	0.400		"	"	"	"	"	"	
Silver	0.0349	0.0200		"	"	"	"	"	"	
Zinc	24.8	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	BHA0849	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	13.7	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	5.57	0.0500		"	"	"	"	"	"	
Sodium	167	0.0500		"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG01@5.0'
2401383-03 (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	9.61	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	91.7		%	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)	1.11	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	8.94		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG02@6.0"
2401383-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.38	0.200	mg/kg dry	1	BHA1007	01/29/24	01/30/24	EPA 6020B	
Barium	94.8	0.400	"	"	"	"	"	"	
Cadmium	0.332	0.200	"	"	"	"	"	"	
Copper	5.85	0.400	"	"	"	"	"	"	
Lead	10.9	0.200	"	"	"	"	"	"	
Nickel	4.41	0.400	"	"	"	"	"	"	
Silver	0.0371	0.0200	"	"	"	"	"	"	
Zinc	28.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	127	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	43.3	0.0500	"	"	"	"	"	"	
Sodium	3.93	0.0500	"	"	"	"	"	"	

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Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG02@6.0"
2401383-04 (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	0.0768	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	94.9		%	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)	0.644	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	6.97		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG02@4.0'
2401383-05 (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	BHA0852	01/24/24	01/26/24	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	5.49	0.200		mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	237	0.400		"	"	"	"	"	"	
Cadmium	0.490	0.200		"	"	"	"	"	"	
Copper	5.91	0.400		"	"	"	"	"	"	
Lead	12.4	0.200		"	"	"	"	"	"	
Nickel	6.92	0.400		"	"	"	"	"	"	
Silver	0.0414	0.0200		"	"	"	"	"	"	
Zinc	24.4	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	BHA0849	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	1510	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	64.6	0.0500		"	"	"	"	"	"	
Sodium	44.1	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

BKG02@4.0'
2401383-05 (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	0.302	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	89.8		%	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)	0.814	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	9.52		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG02@5.0'
2401383-06 (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	BHA0852	01/24/24	01/26/24	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	4.33	0.200		mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	198	0.400		"	"	"	"	"	"	
Cadmium	0.355	0.200		"	"	"	"	"	"	
Copper	5.67	0.400		"	"	"	"	"	"	
Lead	11.2	0.200		"	"	"	"	"	"	
Nickel	6.69	0.400		"	"	"	"	"	"	
Silver	0.0359	0.0200		"	"	"	"	"	"	
Zinc	24.3	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	BHA0849	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	756	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	64.4	0.0500		"	"	"	"	"	"	
Sodium	53.8	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG02@5.0'
2401383-06 (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	0.505	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	88.0		%	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)	1.09	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	8.55		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG03@6.0"
2401383-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.31	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	46.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.67	0.400	"	"	"	"	"	"	
Lead	6.62	0.200	"	"	"	"	"	"	
Nickel	2.73	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	17.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	99.5	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	41.3	0.0500	"	"	"	"	"	"	
Sodium	8.08	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG03@6.0"
2401383-07 (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	0.172	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	96.4		%	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)	0.748	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	7.08		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG03@4.0'
2401383-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.41	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	60.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.08	0.400	"	"	"	"	"	"	
Lead	4.11	0.200	"	"	"	"	"	"	
Nickel	3.26	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	38.7	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	23.7	0.0500	"	"	"	"	"	"	
Sodium	183	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG03@4.0'
2401383-08 (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	5.71	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	96.7		%	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)	3.21	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	8.16		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG03@5.0'
2401383-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.99	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	55.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.63	0.400	"	"	"	"	"	"	
Lead	5.52	0.200	"	"	"	"	"	"	
Nickel	3.67	0.400	"	"	"	"	"	"	
Silver	0.0227	0.0200	"	"	"	"	"	"	
Zinc	14.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	58.5	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	44.4	0.0500	"	"	"	"	"	"	
Sodium	245	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG03@5.0'
2401383-09 (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	5.88	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	95.0		%	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)	3.32	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	8.14		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG04@6.0"
2401383-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.958	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	30.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.10	0.400	"	"	"	"	"	"	
Lead	5.02	0.200	"	"	"	"	"	"	
Nickel	2.36	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	122	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	52.9	0.0500	"	"	"	"	"	"	
Sodium	6.64	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

BKG04@6.0"
2401383-10 (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	0.126	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	95.5		%	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)	0.565	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	8.68		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG04@4.0'
2401383-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.60	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	74.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.80	0.400	"	"	"	"	"	"	
Lead	5.45	0.200	"	"	"	"	"	"	
Nickel	4.81	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	15.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4580	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	147	0.0500	"	"	"	"	"	"	
Sodium	39.2	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG04@4.0'
2401383-11 (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	0.155	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	92.5		%	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)	1.06	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	9.43		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG04@5.0'
2401383-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.01	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	77.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.10	0.400	"	"	"	"	"	"	
Lead	3.89	0.200	"	"	"	"	"	"	
Nickel	3.75	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	15.4	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	6.57	0.0500	"	"	"	"	"	"	
Sodium	51.2	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG04@5.0'
2401383-12 (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	2.75	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	95.2		%	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)	1.40	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	9.11		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG05@6.0"
2401383-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.946	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	32.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.98	0.400	"	"	"	"	"	"	
Lead	4.20	0.200	"	"	"	"	"	"	
Nickel	2.40	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	60.3	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	3.72	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG05@6.0"
2401383-13 (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	0.114	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	97.7		%	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)	0.551	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	7.34		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG05@4.0'
2401383-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.83	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	72.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.47	0.400	"	"	"	"	"	"	
Lead	4.67	0.200	"	"	"	"	"	"	
Nickel	4.01	0.400	"	"	"	"	"	"	
Silver	0.0290	0.0200	"	"	"	"	"	"	
Zinc	14.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	301	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	137	0.0500	"	"	"	"	"	"	
Sodium	352	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG05@4.0'
2401383-14 (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	4.22	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	93.8		%	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)	5.36	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	7.84		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

BKG05@5.0'
2401383-15 (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	BHA0852	01/24/24	01/26/24	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	3.58	0.200		mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	131	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	4.61	0.400		"	"	"	"	"	"	
Lead	6.99	0.200		"	"	"	"	"	"	
Nickel	6.09	0.400		"	"	"	"	"	"	
Silver	0.0285	0.0200		"	"	"	"	"	"	
Zinc	17.2	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	BHA0849	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	176	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	80.4	0.0500		"	"	"	"	"	"	
Sodium	392	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

BKG05@5.0'
2401383-15 (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	6.15	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	91.3		%	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)	4.10	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	8.05		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

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 BHA0852 - EPA 3050B

Blank (BHA0852-BLK1)

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

Boron ND 2.00 mg/L

LCS (BHA0852-BS1)

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

Boron 4.99 2.00 mg/L 5.00 99.8 80-120

Duplicate (BHA0852-DUP1)

Source: 2401382-01

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

Boron 0.367 2.00 mg/L 0.356 2.87 20

Matrix Spike (BHA0852-MS1)

Source: 2401382-01

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

Boron 5.71 2.00 mg/L 5.00 0.356 107 75-125


Matrix Spike Dup (BHA0852-MSD1)

Source: 2401382-01

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

Boron 5.22 2.00 mg/L 5.00 0.356 97.2 75-125 9.04 25

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
01/31/24 10:41

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA1007 - EPA 3050B

Blank (BHA1007-BLK1)

Prepared: 01/29/24 Analyzed: 01/30/24

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 (BHA1007-BS1)

Prepared: 01/29/24 Analyzed: 01/30/24

Arsenic	37.5	0.200	mg/kg wet	40.0	93.8	80-120
Barium	39.1	0.400	"	40.0	97.8	80-120
Cadmium	2.14	0.200	"	2.00	107	80-120
Copper	38.9	0.400	"	40.0	97.3	80-120
Lead	21.9	0.200	"	20.0	110	80-120
Nickel	37.9	0.400	"	40.0	94.8	80-120
Silver	2.20	0.0200	"	2.00	110	80-120
Zinc	36.6	0.400	"	40.0	91.5	80-120
Selenium	4.32	0.260	"	4.00	108	80-120

Duplicate (BHA1007-DUP1)

Source: 2401383-01

Prepared: 01/29/24 Analyzed: 01/30/24

Arsenic	2.94	0.200	mg/kg dry	3.28	11.2	20
Barium	82.9	0.400	"	89.1	7.18	20
Cadmium	0.277	0.200	"	0.309	11.0	20
Copper	5.35	0.400	"	5.90	9.78	20
Lead	8.86	0.200	"	10.2	13.7	20
Nickel	4.89	0.400	"	5.30	8.08	20
Silver	0.0333	0.0200	"	0.0380	13.0	20
Zinc	19.4	0.400	"	22.0	12.4	20
Selenium	0.203	0.260	"	0.228	11.4	20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

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 BHA1007 - EPA 3050B

Matrix Spike (BHA1007-MS1)

Source: 2401383-01

Prepared: 01/29/24 Analyzed: 01/30/24

Arsenic	64.4	0.200	mg/kg dry	42.2	3.28	145	75-125				QM-07
Barium	138	0.400	"	42.2	89.1	116	75-125				
Cadmium	3.29	0.200	"	2.11	0.309	141	75-125				QM-07
Copper	42.1	0.400	"	42.2	5.90	85.8	75-125				
Lead	39.1	0.200	"	21.1	10.2	137	75-125				QM-07
Nickel	41.7	0.400	"	42.2	5.30	86.4	75-125				
Silver	3.03	0.0200	"	2.11	0.0380	142	75-125				QM-07
Zinc	56.9	0.400	"	42.2	22.0	82.8	75-125				
Selenium	6.35	0.260	"	4.22	0.228	145	75-125				QM-07

Matrix Spike Dup (BHA1007-MSD1)

Source: 2401383-01

Prepared: 01/29/24 Analyzed: 01/30/24

Arsenic	64.9	0.200	mg/kg dry	42.2	3.28	146	75-125	0.731	25		QM-07
Barium	141	0.400	"	42.2	89.1	122	75-125	1.76	25		
Cadmium	3.39	0.200	"	2.11	0.309	146	75-125	3.08	25		QM-07
Copper	43.0	0.400	"	42.2	5.90	87.9	75-125	2.08	25		
Lead	39.8	0.200	"	21.1	10.2	141	75-125	1.81	25		QM-07
Nickel	42.6	0.400	"	42.2	5.30	88.5	75-125	2.11	25		
Silver	3.10	0.0200	"	2.11	0.0380	145	75-125	2.36	25		QM-07
Zinc	58.2	0.400	"	42.2	22.0	86.0	75-125	2.32	25		
Selenium	6.61	0.260	"	4.22	0.228	151	75-125	4.00	25		QM-07

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

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 BHA0849 - 3060A Mod

Blank (BHA0849-BLK1)

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0849-BS1)

Prepared & Analyzed: 01/24/24

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

Duplicate (BHA0849-DUP1)

Source: 2401383-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0849-MS1)

Source: 2401383-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 22.7 0.30 mg/kg dry 26.4 ND 86.0 75-125

Matrix Spike Dup (BHA0849-MSD1)

Source: 2401383-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 22.5 0.30 mg/kg dry 26.4 ND 85.2 75-125 0.935 20

Summit Scientific

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Fremont Environmental
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Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

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			

Summit Scientific

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Fremont Environmental
 PO Box 1289
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Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

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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Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

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

Reported:
 01/31/24 10:41

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

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:
01/31/24 10:41

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