

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 25, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Furrow USX (Backgrounds)

Work Order #2401328

Enclosed are the results of analyses for samples received by Summit Scientific on 01/19/24 13:59. 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 - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0"	2401328-01	Soil	01/19/24 00:00	01/19/24 13:59
BKG01@4.0'	2401328-02	Soil	01/19/24 00:00	01/19/24 13:59
BKG01@5.0'	2401328-03	Soil	01/19/24 00:00	01/19/24 13:59
BKG02@6.0"	2401328-04	Soil	01/19/24 00:00	01/19/24 13:59
BKG02@4.0'	2401328-05	Soil	01/19/24 00:00	01/19/24 13:59
BKG02@5.0'	2401328-06	Soil	01/19/24 00:00	01/19/24 13:59
BKG03@6.0"	2401328-07	Soil	01/19/24 00:00	01/19/24 13:59
BKG03@4.0'	2401328-08	Soil	01/19/24 00:00	01/19/24 13:59
BKG03@5.0'	2401328-09	Soil	01/19/24 00:00	01/19/24 13:59
BKG04@6.0"	2401328-10	Soil	01/19/24 00:00	01/19/24 13:59
BKG04@4.0'	2401328-11	Soil	01/19/24 00:00	01/19/24 13:59
BKG04@5.0'	2401328-12	Soil	01/19/24 00:00	01/19/24 13:59
BKG05@6.0"	2401328-13	Soil	01/19/24 00:00	01/19/24 13:59
BKG05@4.0'	2401328-14	Soil	01/19/24 00:00	01/19/24 13:59
BKG05@5.0'	2401328-15	Soil	01/19/24 00:00	01/19/24 13:59

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

Lab ID 2401328 Page 1 of 1

Client: <u>Fremont Env</u>		Send Data To: Project Manager: <u>Paul Henahan</u>		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: <u>Paulh@fremontenv.com</u>		Project Name/Location: <u>Furrow USX AB 15-99HZ</u>	
City/State/Zip:		<u>jeffj@fremontenv.com</u> <u>Ethenb@fremontenv.com</u>		AFE#:	
Phone:		Project Name: <u>Furrow USX (Backgrounds)</u>		PO/Billing Codes: <u>UWRWE-A2543-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	PH, SAR, EC, Boron	Metals (915)					
1	BK601@6.0"	01/19/24		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	BK602@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: <u>JG</u> Date/Time: <u>01/19/24</u>	Received by: <u>[Signature]</u> Date/Time: <u>1/19/24 13:54</u>	TAT Business Days	Field DO	Notes: <u>Bill to Noble</u>
		Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
		2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>8.1</u>	Corrected Temperature	Standard	X Field Turb.	
		IR gun #: <u>2</u>	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2401328Client: Fremont Client Project ID: Furrow USX (Background)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____ Matrix (Check all that apply) Air Soil/Solid Water Other Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u>				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.Mikayla Axtell

Custodian Printed Name

1/19/24 13:59

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG01@6.0"
2401328-01 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.63	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	39.4	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.73	0.400		"	"	"	"	"	"	
Lead	4.97	0.200		"	"	"	"	"	"	
Nickel	2.48	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	11.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	28.0	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	5.05	0.0500		"	"	"	"	"	"	
Sodium	0.506	0.0500		"	"	"	"	"	"	

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Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
 Project Manager: Paul Henchan

Reported:
 01/25/24 16:29

BKG01@6.0"
2401328-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0231	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0367	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.06		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG01@4.0'
2401328-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.82	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	90.5	0.400		"	"	"	"	"	"	
Cadmium	0.573	0.200		"	"	"	"	"	"	
Copper	9.49	0.400		"	"	"	"	"	"	
Lead	16.5	0.200		"	"	"	"	"	"	
Nickel	6.38	0.400		"	"	"	"	"	"	
Silver	0.0852	0.0200		"	"	"	"	"	"	
Zinc	24.5	0.400		"	"	"	"	"	"	
Selenium	0.471	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	31.7	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	11.7	0.0500		"	"	"	"	"	"	
Sodium	3.37	0.0500		"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Furrow USX (Backgrounds)
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Reported:
01/25/24 16:29

BKG01@4.0'
2401328-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.130	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0673	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG01@5.0'
2401328-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.36	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	108	0.400		"	"	"	"	"	"	
Cadmium	0.749	0.200		"	"	"	"	"	"	
Copper	6.29	0.400		"	"	"	"	"	"	
Lead	16.0	0.200		"	"	"	"	"	"	
Nickel	7.79	0.400		"	"	"	"	"	"	
Silver	0.103	0.0200		"	"	"	"	"	"	
Zinc	19.2	0.400		"	"	"	"	"	"	
Selenium	0.555	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	20.1	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	8.18	0.0500		"	"	"	"	"	"	
Sodium	28.5	0.0500		"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
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Reported:
01/25/24 16:29

BKG01@5.0'
2401328-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.35	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.262	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@6.0"
2401328-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.52	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	46.2	0.400	"	"	"	"	"	"	
Cadmium	0.259	0.200	"	"	"	"	"	"	
Copper	4.19	0.400	"	"	"	"	"	"	
Lead	9.08	0.200	"	"	"	"	"	"	
Nickel	3.41	0.400	"	"	"	"	"	"	
Silver	0.0330	0.0200	"	"	"	"	"	"	
Zinc	16.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	67.3	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	17.5	0.0500	"	"	"	"	"	"	
Sodium	1.02	0.0500	"	"	"	"	"	"	

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Reported:
01/25/24 16:29

BKG02@6.0"
2401328-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0286	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0334	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.12		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@4.0'
2401328-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.60	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	54.7	0.400	"	"	"	"	"	"	
Cadmium	0.262	0.200	"	"	"	"	"	"	
Copper	6.59	0.400	"	"	"	"	"	"	
Lead	10.5	0.200	"	"	"	"	"	"	
Nickel	6.15	0.400	"	"	"	"	"	"	
Silver	0.0436	0.0200	"	"	"	"	"	"	
Zinc	27.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	25.2	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	9.44	0.0500	"	"	"	"	"	"	
Sodium	18.9	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@4.0'
2401328-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.815	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.164	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.27		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@5.0'
2401328-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.53	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	58.0	0.400	"	"	"	"	"	"	
Cadmium	0.274	0.200	"	"	"	"	"	"	
Copper	6.05	0.400	"	"	"	"	"	"	
Lead	9.80	0.200	"	"	"	"	"	"	
Nickel	4.04	0.400	"	"	"	"	"	"	
Silver	0.0423	0.0200	"	"	"	"	"	"	
Zinc	21.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	23.0	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	8.30	0.0500	"	"	"	"	"	"	
Sodium	16.3	0.0500	"	"	"	"	"	"	

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Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
 Project Manager: Paul Henchan

Reported:
 01/25/24 16:29

BKG02@5.0'
2401328-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.741	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.8		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.126	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.68		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@6.0"
2401328-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.91	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	36.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.58	0.400	"	"	"	"	"	"	
Lead	6.43	0.200	"	"	"	"	"	"	
Nickel	2.88	0.400	"	"	"	"	"	"	
Silver	0.0246	0.0200	"	"	"	"	"	"	
Zinc	13.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	16.4	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	5.89	0.0500	"	"	"	"	"	"	
Sodium	0.651	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
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Project: Noble - Furrow USX (Backgrounds)
 Project Number: UWRWE-A2542-ABN
 Project Manager: Paul Henchan

Reported:
 01/25/24 16:29

BKG03@6.0"
2401328-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0351	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0480	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.23		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@4.0'
2401328-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.21	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	101	0.400	"	"	"	"	"	"	
Cadmium	0.409	0.200	"	"	"	"	"	"	
Copper	9.31	0.400	"	"	"	"	"	"	
Lead	15.2	0.200	"	"	"	"	"	"	
Nickel	6.92	0.400	"	"	"	"	"	"	
Silver	0.0451	0.0200	"	"	"	"	"	"	
Zinc	31.5	0.400	"	"	"	"	"	"	
Selenium	0.388	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	18.7	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	7.73	0.0500	"	"	"	"	"	"	
Sodium	88.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

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PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@4.0'
2401328-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.32	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.621	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.73		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@5.0'
2401328-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.25	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	86.8	0.400	"	"	"	"	"	"	
Cadmium	0.287	0.200	"	"	"	"	"	"	
Copper	11.4	0.400	"	"	"	"	"	"	
Lead	13.7	0.200	"	"	"	"	"	"	
Nickel	4.76	0.400	"	"	"	"	"	"	
Silver	0.0586	0.0200	"	"	"	"	"	"	
Zinc	20.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	14.5	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	9.64	0.0500	"	"	"	"	"	"	
Sodium	116	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@5.0'
2401328-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.84	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	50.5		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.458	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.16		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@6.0"
2401328-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.69	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	77.4	0.400		"	"	"	"	"	"	
Cadmium	0.274	0.200		"	"	"	"	"	"	
Copper	4.97	0.400		"	"	"	"	"	"	
Lead	8.79	0.200		"	"	"	"	"	"	
Nickel	5.66	0.400		"	"	"	"	"	"	
Silver	0.0362	0.0200		"	"	"	"	"	"	
Zinc	19.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	9.62	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	2.36	0.0500		"	"	"	"	"	"	
Sodium	0.669	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@6.0"
2401328-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0501	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.5		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0556	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.77		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@4.0'
2401328-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.81	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	63.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.47	0.400	"	"	"	"	"	"	
Lead	4.94	0.200	"	"	"	"	"	"	
Nickel	3.44	0.400	"	"	"	"	"	"	
Silver	0.0246	0.0200	"	"	"	"	"	"	
Zinc	12.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	90.6	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	7.92	0.0500	"	"	"	"	"	"	
Sodium	1.92	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@4.0'
2401328-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0519	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0892	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.82		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@5.0'
2401328-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.19	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	174	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.72	0.400	"	"	"	"	"	"	
Lead	4.45	0.200	"	"	"	"	"	"	
Nickel	3.00	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	87.8	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	3.41	0.0500	"	"	"	"	"	"	

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@5.0'
2401328-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0909	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0854	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@6.0"
2401328-13 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.81	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	51.5	0.400		"	"	"	"	"	"	
Cadmium	0.233	0.200		"	"	"	"	"	"	
Copper	4.40	0.400		"	"	"	"	"	"	
Lead	7.86	0.200		"	"	"	"	"	"	
Nickel	4.54	0.400		"	"	"	"	"	"	
Silver	0.0406	0.0200		"	"	"	"	"	"	
Zinc	16.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	78.3	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	31.1	0.0500		"	"	"	"	"	"	
Sodium	5.89	0.0500		"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@6.0"
2401328-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.142	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.8		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0428	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@4.0'
2401328-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.17	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	48.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.68	0.400	"	"	"	"	"	"	
Lead	5.30	0.200	"	"	"	"	"	"	
Nickel	3.77	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	356	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	21.4	0.0500	"	"	"	"	"	"	
Sodium	60.7	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@4.0'
2401328-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.845	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.375	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.48		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@5.0'
2401328-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.24	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	65.4	0.400	"	"	"	"	"	"	
Cadmium	0.202	0.200	"	"	"	"	"	"	
Copper	3.63	0.400	"	"	"	"	"	"	
Lead	5.51	0.200	"	"	"	"	"	"	
Nickel	3.80	0.400	"	"	"	"	"	"	
Silver	0.0265	0.0200	"	"	"	"	"	"	
Zinc	13.4	0.400	"	"	"	"	"	"	
Selenium	0.328	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	17.2	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	10.8	0.0500	"	"	"	"	"	"	
Sodium	136	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@5.0'
2401328-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.33	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.997	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
 Project Manager: Paul Henchan

Reported:
 01/25/24 16:29

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

Summit Scientific

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

Batch BHA0750 - EPA 3050B

Blank (BHA0750-BLK1)				Prepared: 01/22/24 Analyzed: 01/24/24							
Boron	ND	2.00	mg/L								
LCS (BHA0750-BS1)				Prepared: 01/22/24 Analyzed: 01/24/24							
Boron	5.53	2.00	mg/L	5.00	111	80-120					
Duplicate (BHA0750-DUP1)				Source: 2312139-17		Prepared: 01/22/24 Analyzed: 01/24/24					
Boron	3.12	2.00	mg/L	3.17			1.55	20			
Matrix Spike (BHA0750-MS1)				Source: 2312139-17		Prepared: 01/22/24 Analyzed: 01/24/24					
Boron	7.26	2.00	mg/L	5.00	3.17	81.7	75-125				
Matrix Spike Dup (BHA0750-MSD1)				Source: 2312139-17		Prepared: 01/22/24 Analyzed: 01/24/24					
Boron	7.42	2.00	mg/L	5.00	3.17	85.1	75-125	2.30	25		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
 Project Manager: Paul Henchan

Reported:
 01/25/24 16:29

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 BHA0758 - EPA 3050B

Blank (BHA0758-BLK1)

Prepared: 01/22/24 Analyzed: 01/24/24

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 (BHA0758-BS1)

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	35.6	0.200	mg/kg wet	40.0		88.9	80-120			
Barium	37.2	0.400	"	40.0		93.0	80-120			
Cadmium	1.82	0.200	"	2.00		90.9	80-120			
Copper	37.6	0.400	"	40.0		93.9	80-120			
Lead	18.1	0.200	"	20.0		90.3	80-120			
Nickel	36.7	0.400	"	40.0		91.8	80-120			
Silver	1.80	0.0200	"	2.00		90.1	80-120			
Zinc	37.0	0.400	"	40.0		92.6	80-120			
Selenium	4.13	0.260	"	4.00		103	80-120			

Duplicate (BHA0758-DUP1)

Source: 2401328-01

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	1.53	0.200	mg/kg dry	1.63		6.12	20			
Barium	24.5	0.400	"	39.4		46.6	20			QR-04
Cadmium	0.159	0.200	"	0.161		1.56	20			
Copper	2.58	0.400	"	2.73		5.54	20			
Lead	5.04	0.200	"	4.97		1.26	20			
Nickel	2.26	0.400	"	2.48		9.21	20			
Silver	0.0121	0.0200	"	0.0154		24.2	20			QR-01
Zinc	10.4	0.400	"	11.3		8.64	20			
Selenium	ND	0.260	"	ND			20			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
 Project Manager: Paul Henchan

Reported:
 01/25/24 16:29

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 BHA0758 - EPA 3050B

Matrix Spike (BHA0758-MS1)

Source: 2401328-01

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	38.8	0.200	mg/kg dry	41.6	1.63	89.2	75-125				
Barium	61.7	0.400	"	41.6	39.4	53.4	75-125				QM-05
Cadmium	2.08	0.200	"	2.08	0.161	92.5	75-125				
Copper	33.3	0.400	"	41.6	2.73	73.5	75-125				QM-05
Lead	23.4	0.200	"	20.8	4.97	88.5	75-125				
Nickel	32.6	0.400	"	41.6	2.48	72.3	75-125				QM-05
Silver	1.88	0.0200	"	2.08	0.0154	89.8	75-125				
Zinc	42.0	0.400	"	41.6	11.3	73.8	75-125				QM-05
Selenium	3.94	0.260	"	4.16	ND	94.8	75-125				

Matrix Spike Dup (BHA0758-MSD1)

Source: 2401328-01

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	39.2	0.200	mg/kg dry	41.6	1.63	90.4	75-125	1.22	25		
Barium	62.2	0.400	"	41.6	39.4	54.8	75-125	0.913	25		QM-05
Cadmium	2.09	0.200	"	2.08	0.161	92.9	75-125	0.458	25		
Copper	34.1	0.400	"	41.6	2.73	75.5	75-125	2.46	25		
Lead	23.9	0.200	"	20.8	4.97	90.8	75-125	2.02	25		
Nickel	33.4	0.400	"	41.6	2.48	74.4	75-125	2.69	25		QM-05
Silver	1.91	0.0200	"	2.08	0.0154	90.9	75-125	1.12	25		
Zinc	43.1	0.400	"	41.6	11.3	76.3	75-125	2.46	25		
Selenium	4.31	0.260	"	4.16	ND	104	75-125	9.02	25		

Summit Scientific

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Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHA0747 - 3060A Mod

Blank (BHA0747-BLK1)

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0747-BS1)

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 24.3 0.30 mg/kg wet 25.0 97.2 80-120

Duplicate (BHA0747-DUP1)

Source: 2401318-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0747-MS1)

Source: 2401318-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 23.8 0.30 mg/kg dry 26.1 ND 91.2 75-125

Matrix Spike Dup (BHA0747-MSD1)

Source: 2401318-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 23.4 0.30 mg/kg dry 26.1 ND 89.8 75-125 1.55 20

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

Summit Scientific

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

Batch BHA0781 - General Preparation

Blank (BHA0781-BLK1)

Prepared: 01/23/24 Analyzed: 01/25/24


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

LCS (BHA0781-BS1)

Prepared: 01/23/24 Analyzed: 01/25/24

Calcium	6.11	0.0500	mg/L wet	5.00		122	70-130			
Magnesium	5.23	0.0500	"	5.00		105	70-130			
Sodium	5.09	0.0500	"	5.00		102	70-130			

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

Summit Scientific

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

Batch BHA0763 - General Preparation

Duplicate (BHA0763-DUP1)	Source: 2312139-17	Prepared & Analyzed: 01/22/24		
% Solids	78.4	% 76.1	3.01	20

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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 BHA0832 - General Preparation

Blank (BHA0832-BLK1)

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0832-BS1)

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHA0832-DUP1)

Source: 2401328-01

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) 0.0362 0.0100 mmhos/cm 0.0367 1.37 20

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Reported:
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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 BHA0831 - General Preparation

LCS (BHA0831-BS1)

Prepared & Analyzed: 01/24/24

pH 9.27 pH Units 9.18 101 95-105

Duplicate (BHA0831-DUP1)

Source: 2401328-01

Prepared & Analyzed: 01/24/24

pH 6.85 pH Units 7.06 3.02 20

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Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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