

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 28, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Achziger (BKG)

Work Order #2403483

Enclosed are the results of analyses for samples received by Summit Scientific on 03/29/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 0.5'	2403483-01	Soil	03/29/24 11:35	03/29/24 16:30
BKG01 3'	2403483-02	Soil	03/29/24 11:40	03/29/24 16:30
BKG01 4'	2403483-03	Soil	03/29/24 11:45	03/29/24 16:30
BKG02 0.5'	2403483-04	Soil	03/29/24 11:50	03/29/24 16:30
BKG02 3'	2403483-05	Soil	03/29/24 11:55	03/29/24 16:30
BKG02 4'	2403483-06	Soil	03/29/24 12:00	03/29/24 16:30
BKG03 0.5'	2403483-07	Soil	03/29/24 12:05	03/29/24 16:30
BKG03 3'	2403483-08	Soil	03/29/24 12:10	03/29/24 16:30
BKG03 4'	2403483-09	Soil	03/29/24 12:15	03/29/24 16:30
BKG04 0.5'	2403483-10	Soil	03/29/24 12:20	03/29/24 16:30
BKG04 3'	2403483-11	Soil	03/29/24 12:25	03/29/24 16:30
BKG04 4'	2403483-12	Soil	03/29/24 12:30	03/29/24 16:30
BKG05 0.5'	2403483-13	Soil	03/29/24 12:35	03/29/24 16:30
BKG05 3'	2403483-14	Soil	03/29/24 12:40	03/29/24 16:30
BKG05 4'	2403483-15	Soil	03/29/24 12:45	03/29/24 16:30

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client: Fremont Environmental		Send Data To:	Send Invoice To:
Address:		Project Manager: Paul Henahan	Company: Noble
City/State/Zip:		E-Mail: Fremont Distribution List	Project Name/Location:
Phone: 303-261-6246		Project Name: Achziger (BKG)	AFE#:
Sampler Name: Stanley Gilbert		Project Number:	PO/Billing Codes: LWRWE-A1687-ABN
		Contact: Mike Montoya	

					Preservative				Matrix			Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD	
1	BKG01 0.5'	3/29/24	11:35	1			X			X						X	X				
2	BKG01 3'		11:40																		
3	BKG01 4'		11:45																		
4	BKG02 0.5'		11:50																		
5	BKG02 3'		11:55																		
6	BKG02 4'		12:00																		
7	BKG03 0.5'		12:05																		
8	BKG03 3'		12:10																		
9	BKG03 4'		12:15																		
10	BKG04 0.5'		12:20																		
11	BKG04 3'		12:25																		
12	BKG04 4'		12:30																		
13	BKG05 0.5'		12:35																		
14	BKG05 3'		12:40																		
15	BKG05 4'		12:45																		

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
<i>[Signature]</i>	3/29/24 14:40	Summit North	3/29/24 14:40	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
<i>[Signature]</i>	3/29/24 16:30	<i>[Signature]</i>	3/29/24 16:30	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 11.1	Corrected Temperature 0	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2403483Client: FremontClient Project ID: Achziger (BKG)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: _____

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Custodian Printed Name

Date/Time

AS

3/29/24

BKG



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG01 0.5'
2403483-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.04	0.200		mg/kg dry	1	BHD0664	04/19/24	04/26/24	EPA 6020B	
Barium	79.8	0.400		"	"	"	"	"	"	
Cadmium	0.316	0.200		"	"	"	"	"	"	
Copper	8.92	0.400		"	"	"	"	"	"	
Lead	25.3	0.200		"	"	"	"	"	"	
Nickel	4.81	0.400		"	"	"	"	"	"	
Silver	0.0348	0.0200		"	"	"	"	"	"	
Zinc	37.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	181	0.0500		mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	45.9	0.0500		"	"	"	"	"	"	
Sodium	99.1	0.0500		"	"	"	"	"	"	

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Reported:
05/28/24 07:44

BKG01 0.5'
2403483-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.70	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.00	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

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Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG01 3'
2403483-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.00	0.200		mg/kg dry	1	BHD0664	04/19/24	04/26/24	EPA 6020B	
Barium	109	0.400		"	"	"	"	"	"	
Cadmium	0.272	0.200		"	"	"	"	"	"	
Copper	5.71	0.400		"	"	"	"	"	"	
Lead	7.95	0.200		"	"	"	"	"	"	
Nickel	6.56	0.400		"	"	"	"	"	"	
Silver	0.0365	0.0200		"	"	"	"	"	"	
Zinc	27.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	18.6	0.0500		mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	7.40	0.0500		"	"	"	"	"	"	
Sodium	160	0.0500		"	"	"	"	"	"	

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Reported:
05/28/24 07:44

BKG01 3'
2403483-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.94	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.964	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.46		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

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Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG01 4'
2403483-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	6.76	0.200	mg/kg dry	1	BHD0664	04/19/24	04/26/24	EPA 6020B	
Barium	102	0.400	"	"	"	"	"	"	
Cadmium	0.240	0.200	"	"	"	"	"	"	
Copper	5.19	0.400	"	"	"	"	"	"	
Lead	11.1	0.200	"	"	"	"	"	"	
Nickel	4.86	0.400	"	"	"	"	"	"	
Silver	0.0287	0.0200	"	"	"	"	"	"	
Zinc	25.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	667	0.0500	mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	36.0	0.0500	"	"	"	"	"	"	
Sodium	136	0.0500	"	"	"	"	"	"	

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Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG01 4'
2403483-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.6		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.702	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.30		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

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Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG02 0.5'
2403483-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.01	0.200		mg/kg dry	1	BHD0664	04/19/24	04/26/24	EPA 6020B	
Barium	79.0	0.400		"	"	"	"	"	"	
Cadmium	0.351	0.200		"	"	"	"	"	"	
Copper	9.06	0.400		"	"	"	"	"	"	
Lead	23.9	0.200		"	"	"	"	"	"	
Nickel	4.96	0.400		"	"	"	"	"	"	
Silver	0.0346	0.0200		"	"	"	"	"	"	
Zinc	43.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	24.8	0.0500		mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	9.40	0.0500		"	"	"	"	"	"	
Sodium	68.3	0.0500		"	"	"	"	"	"	

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Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG02 0.5'
2403483-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.96	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.618	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

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Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG02 3'
2403483-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.63	0.200	mg/kg dry	1	BHD0664	04/19/24	04/26/24	EPA 6020B	
Barium	103	0.400	"	"	"	"	"	"	
Cadmium	0.259	0.200	"	"	"	"	"	"	
Copper	5.33	0.400	"	"	"	"	"	"	
Lead	8.69	0.200	"	"	"	"	"	"	
Nickel	5.82	0.400	"	"	"	"	"	"	
Silver	0.0389	0.0200	"	"	"	"	"	"	
Zinc	29.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	14.3	0.0500	mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	5.31	0.0500	"	"	"	"	"	"	
Sodium	119	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG02 3'
2403483-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.82	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.734	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG02 4'
2403483-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.82	0.200	mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	75.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.57	0.400	"	"	"	"	"	"	
Lead	7.20	0.200	"	"	"	"	"	"	
Nickel	6.30	0.400	"	"	"	"	"	"	
Silver	0.0204	0.0200	"	"	"	"	"	"	
Zinc	22.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	262	0.0500	mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	15.4	0.0500	"	"	"	"	"	"	
Sodium	156	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG02 4'
2403483-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.53	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.937	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.06		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG03 0.5'
2403483-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.10	0.200	mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	48.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.00	0.400	"	"	"	"	"	"	
Lead	6.19	0.200	"	"	"	"	"	"	
Nickel	5.41	0.400	"	"	"	"	"	"	
Silver	0.0247	0.0200	"	"	"	"	"	"	
Zinc	31.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	31.8	0.0500	mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	8.77	0.0500	"	"	"	"	"	"	
Sodium	3.35	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG03 0.5'
2403483-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.136	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.317	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG03 3'
2403483-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.49	0.200	mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	44.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.15	0.400	"	"	"	"	"	"	
Lead	3.56	0.200	"	"	"	"	"	"	
Nickel	3.76	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	42.5	0.0500	mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	6.96	0.0500	"	"	"	"	"	"	
Sodium	1.90	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG03 3'
2403483-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0712	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG03 4'
2403483-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.44	0.200	mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	40.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.97	0.400	"	"	"	"	"	"	
Lead	3.91	0.200	"	"	"	"	"	"	
Nickel	3.55	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	20.5	0.0500	mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	11.3	0.0500	"	"	"	"	"	"	
Sodium	6.68	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG03 4'
2403483-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.294	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.288	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG04 0.5'
2403483-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.89	0.200		mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	50.3	0.400		"	"	"	"	"	"	
Cadmium	0.228	0.200		"	"	"	"	"	"	
Copper	8.34	0.400		"	"	"	"	"	"	
Lead	7.05	0.200		"	"	"	"	"	"	
Nickel	6.05	0.400		"	"	"	"	"	"	
Silver	0.0288	0.0200		"	"	"	"	"	"	
Zinc	35.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	20.9	0.0500		mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	6.70	0.0500		"	"	"	"	"	"	
Sodium	2.18	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG04 0.5'
2403483-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.106	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.210	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG04 3'
2403483-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.55	0.200		mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	54.0	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.77	0.400		"	"	"	"	"	"	
Lead	4.05	0.200		"	"	"	"	"	"	
Nickel	3.98	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	17.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	27.8	0.0500		mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	7.57	0.0500		"	"	"	"	"	"	
Sodium	2.60	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG04 3'
2403483-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.113	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.207	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG04 4'
2403483-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.10	0.200	mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	57.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.01	0.400	"	"	"	"	"	"	
Lead	4.02	0.200	"	"	"	"	"	"	
Nickel	3.69	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	16.2	0.0500	mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	6.86	0.0500	"	"	"	"	"	"	
Sodium	4.43	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG04 4'
2403483-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.233	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.189	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG05 0.5'
2403483-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.25	0.200	mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	70.4	0.400	"	"	"	"	"	"	
Cadmium	0.270	0.200	"	"	"	"	"	"	
Copper	9.10	0.400	"	"	"	"	"	"	
Lead	8.19	0.200	"	"	"	"	"	"	
Nickel	7.01	0.400	"	"	"	"	"	"	
Silver	0.0315	0.0200	"	"	"	"	"	"	
Zinc	41.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	20.1	0.0500	mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	6.73	0.0500	"	"	"	"	"	"	
Sodium	1.70	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG05 0.5'
2403483-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0838	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.5		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.179	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG05 3'
2403483-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.58	0.200	mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	45.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.32	0.400	"	"	"	"	"	"	
Lead	3.86	0.200	"	"	"	"	"	"	
Nickel	3.69	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	34.9	0.0500	mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	6.59	0.0500	"	"	"	"	"	"	
Sodium	1.89	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG05 3'
2403483-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0769	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.143	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.64		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG05 4'
2403483-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.09	0.200		mg/kg dry	1	BHD0665	04/19/24	05/09/24	EPA 6020B	
Barium	46.6	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.06	0.400		"	"	"	"	"	"	
Lead	3.77	0.200		"	"	"	"	"	"	
Nickel	6.83	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	14.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0346	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **03/29/24 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	15.7	0.0500		mg/L dry	1	BHD0548	04/17/24	04/27/24	EPA 6020B	
Magnesium	7.83	0.0500		"	"	"	"	"	"	
Sodium	4.93	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

BKG05 4'
2403483-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/29/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.254	0.00100	units	1	BHD1022	04/29/24	04/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.184	0.0100	mmhos/cm	1	BHD0558	04/17/24	04/19/24	EPA 120.1	

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

Date Sampled: **03/29/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.64		pH Units	1	BHD0557	04/17/24	04/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

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

Summit Scientific

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

Batch BHD0368 - EPA 3050B

Blank (BHD0368-BLK1)

Prepared: 04/11/24 Analyzed: 05/24/24

Boron	ND	2.00	mg/L
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LCS (BHD0368-BS1)

Prepared: 04/11/24 Analyzed: 05/24/24

Boron	4.82	2.00	mg/L	5.00	96.4	80-120
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Duplicate (BHD0368-DUP1)

Source: 2403483-01

Prepared: 04/11/24 Analyzed: 05/24/24

Boron	0.728	2.00	mg/L	0.607	18.1	20
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Matrix Spike (BHD0368-MS1)

Source: 2403483-01

Prepared: 04/11/24 Analyzed: 05/24/24

Boron	5.80	2.00	mg/L	5.00	0.607	104	75-125
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Matrix Spike Dup (BHD0368-MSD1)

Source: 2403483-01

Prepared: 04/11/24 Analyzed: 05/24/24

Boron	5.97	2.00	mg/L	5.00	0.607	107	75-125	3.04	25
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0664 - EPA 3050B

Blank (BHD0664-BLK1)

Prepared: 04/19/24 Analyzed: 04/26/24

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 (BHD0664-BS1)

Prepared: 04/19/24 Analyzed: 04/26/24

Arsenic	35.7	0.200	mg/kg wet	40.0	89.3	80-120
Barium	38.6	0.400	"	40.0	96.4	80-120
Cadmium	1.92	0.200	"	2.00	95.9	80-120
Copper	43.3	0.400	"	40.0	108	80-120
Lead	19.2	0.200	"	20.0	96.1	80-120
Nickel	42.4	0.400	"	40.0	106	80-120
Silver	1.90	0.0200	"	2.00	95.2	80-120
Zinc	35.9	0.400	"	40.0	89.9	80-120
Selenium	3.69	0.260	"	4.00	92.2	80-120

Duplicate (BHD0664-DUP1)

Source: 2403477-01

Prepared: 04/19/24 Analyzed: 04/26/24

Arsenic	2.33	0.200	mg/kg dry	1.98	15.9	20	
Barium	71.9	0.400	"	63.0	13.3	20	
Cadmium	0.236	0.200	"	0.177	28.9	20	QR-04
Copper	5.56	0.400	"	4.28	26.0	20	QR-04
Lead	7.74	0.200	"	5.66	31.1	20	QR-04
Nickel	4.01	0.400	"	3.47	14.3	20	
Silver	0.0471	0.0200	"	0.0288	48.3	20	QR-01
Zinc	28.1	0.400	"	21.2	28.2	20	QR-04
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0664 - EPA 3050B

Matrix Spike (BHD0664-MS1)			Source: 2403477-01		Prepared: 04/19/24 Analyzed: 04/26/24						
Arsenic	42.6	0.200	mg/kg dry	43.6	1.98	93.2	75-125				
Barium	117	0.400	"	43.6	63.0	124	75-125				
Cadmium	2.33	0.200	"	2.18	0.177	98.9	75-125				
Copper	33.9	0.400	"	43.6	4.28	68.0	75-125				QM-05
Lead	27.5	0.200	"	21.8	5.66	100	75-125				
Nickel	32.6	0.400	"	43.6	3.47	66.8	75-125				QM-05
Silver	2.12	0.0200	"	2.18	0.0288	96.0	75-125				
Zinc	68.1	0.400	"	43.6	21.2	107	75-125				
Selenium	3.60	0.260	"	4.36	ND	82.6	75-125				

Matrix Spike Dup (BHD0664-MSD1)			Source: 2403477-01		Prepared: 04/19/24 Analyzed: 04/26/24						
Arsenic	42.1	0.200	mg/kg dry	43.6	1.98	91.9	75-125	1.33	25		
Barium	118	0.400	"	43.6	63.0	125	75-125	0.515	25		
Cadmium	2.33	0.200	"	2.18	0.177	98.6	75-125	0.281	25		
Copper	35.3	0.400	"	43.6	4.28	71.2	75-125	3.97	25		QM-05
Lead	27.6	0.200	"	21.8	5.66	101	75-125	0.138	25		
Nickel	33.9	0.400	"	43.6	3.47	69.7	75-125	3.80	25		QM-05
Silver	2.13	0.0200	"	2.18	0.0288	96.3	75-125	0.287	25		
Zinc	66.8	0.400	"	43.6	21.2	105	75-125	1.85	25		
Selenium	3.68	0.260	"	4.36	ND	84.4	75-125	2.13	25		

Post Spike (BHD0664-PS1)			Source: 2403477-01		Prepared: 04/19/24 Analyzed: 04/26/24						
Arsenic	99.9		ug/l	100	4.55	95.4	75-125				
Barium	249		"	100	144	105	75-125				
Cadmium	5.31		"	5.00	0.405	98.1	75-125				
Copper	84.2		"	100	9.81	74.4	75-125				QM-01
Lead	62.2		"	50.0	13.0	98.4	75-125				
Nickel	81.3		"	100	7.96	73.3	75-125				QM-01
Silver	4.98		"	5.00	0.0660	98.2	75-125				
Zinc	144		"	100	48.6	95.5	75-125				
Selenium	9.42		"	10.0	0.138	92.8	75-125				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0665 - EPA 3050B

Blank (BHD0665-BLK1)

Prepared: 04/19/24 Analyzed: 05/09/24

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 (BHD0665-BS1)

Prepared: 04/19/24 Analyzed: 05/09/24

Arsenic	36.9	0.200	mg/kg wet	40.0	92.3	80-120
Barium	37.5	0.400	"	40.0	93.8	80-120
Cadmium	1.88	0.200	"	2.00	94.2	80-120
Copper	37.1	0.400	"	40.0	92.8	80-120
Lead	18.5	0.200	"	20.0	92.5	80-120
Nickel	36.4	0.400	"	40.0	91.0	80-120
Silver	1.89	0.0200	"	2.00	94.5	80-120
Zinc	36.3	0.400	"	40.0	90.8	80-120
Selenium	4.00	0.260	"	4.00	99.9	80-120

Duplicate (BHD0665-DUP1)

Source: 2403483-06

Prepared: 04/19/24 Analyzed: 05/09/24

Arsenic	3.94	0.200	mg/kg dry	3.82	3.25	20
Barium	79.4	0.400	"	75.4	5.23	20
Cadmium	0.183	0.200	"	0.189	3.09	20
Copper	5.42	0.400	"	5.57	2.86	20
Lead	7.88	0.200	"	7.20	8.94	20
Nickel	5.82	0.400	"	6.30	7.90	20
Silver	0.0200	0.0200	"	0.0204	2.15	20
Zinc	21.6	0.400	"	22.5	3.82	20
Selenium	ND	0.260	"	ND		20

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Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0665 - EPA 3050B

Matrix Spike (BHD0665-MS1)

Source: 2403483-06

Prepared: 04/19/24 Analyzed: 05/09/24

Arsenic	45.4	0.200	mg/kg dry	43.6	3.82	95.5	75-125
Barium	111	0.400	"	43.6	75.4	82.7	75-125
Cadmium	2.36	0.200	"	2.18	0.189	99.7	75-125
Copper	46.8	0.400	"	43.6	5.57	94.7	75-125
Lead	31.8	0.200	"	21.8	7.20	113	75-125
Nickel	46.0	0.400	"	43.6	6.30	91.2	75-125
Silver	2.12	0.0200	"	2.18	0.0204	96.6	75-125
Zinc	64.2	0.400	"	43.6	22.5	95.8	75-125
Selenium	4.46	0.260	"	4.36	ND	102	75-125

Matrix Spike Dup (BHD0665-MSD1)

Source: 2403483-06

Prepared: 04/19/24 Analyzed: 05/09/24

Arsenic	45.1	0.200	mg/kg dry	43.6	3.82	94.8	75-125	0.685	25
Barium	111	0.400	"	43.6	75.4	82.1	75-125	0.233	25
Cadmium	2.34	0.200	"	2.18	0.189	98.9	75-125	0.815	25
Copper	46.4	0.400	"	43.6	5.57	93.6	75-125	0.956	25
Lead	31.8	0.200	"	21.8	7.20	113	75-125	0.0974	25
Nickel	45.9	0.400	"	43.6	6.30	90.8	75-125	0.333	25
Silver	2.13	0.0200	"	2.18	0.0204	96.9	75-125	0.348	25
Zinc	64.4	0.400	"	43.6	22.5	96.3	75-125	0.348	25
Selenium	4.46	0.260	"	4.36	ND	102	75-125	0.0391	25

Post Spike (BHD0665-PS1)

Source: 2403483-06

Prepared: 04/19/24 Analyzed: 05/09/24

Arsenic	110		ug/l	100	8.69	102	75-125
Barium	281		"	100	172	109	75-125
Cadmium	5.47		"	5.00	0.430	101	75-125
Copper	110		"	100	12.7	97.5	75-125
Lead	65.8		"	50.0	16.4	98.9	75-125
Nickel	111		"	100	14.3	97.2	75-125
Silver	4.96		"	5.00	0.0465	98.2	75-125
Zinc	153		"	100	51.1	101	75-125
Selenium	9.98		"	10.0	0.253	97.3	75-125

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Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHD0346 - 3060A Mod

Blank (BHD0346-BLK1)

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0346-BS1)

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.6 80-120

Duplicate (BHD0346-DUP1)

Source: 2403483-01

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0346-MS1)

Source: 2403483-01

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent 23.4 0.30 mg/kg dry 27.2 ND 86.0 75-125

Matrix Spike Dup (BHD0346-MSD1)

Source: 2403483-01

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent 24.4 0.30 mg/kg dry 27.2 ND 90.0 75-125 4.55 20

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Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

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

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

Batch BHD0548 - General Preparation

Blank (BHD0548-BLK1)

Prepared: 04/17/24 Analyzed: 04/27/24

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

LCS (BHD0548-BS1)

Prepared: 04/17/24 Analyzed: 04/27/24

Calcium	5.77	0.0500	mg/L wet	5.00	115	70-130
Magnesium	5.09	0.0500	"	5.00	102	70-130
Sodium	5.28	0.0500	"	5.00	106	70-130

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Project: Noble - Achziger (BKG)

Project Number: UWRWE-A1687-ABN

Project Manager: Paul Henchan

Reported:
05/28/24 07:44

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

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

Batch BHD0262 - General Preparation

Duplicate (BHD0262-DUP1)			Source: 2403467-41			Prepared & Analyzed: 04/09/24					
% Solids	79.5		%			86.4		8.32		20	

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Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BHD0558 - General Preparation

Blank (BHD0558-BLK1)

Prepared: 04/17/24 Analyzed: 04/19/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0558-BS1)

Prepared: 04/17/24 Analyzed: 04/19/24

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

Duplicate (BHD0558-DUP1)

Source: 2403483-01

Prepared: 04/17/24 Analyzed: 04/19/24

Specific Conductance (EC) 0.976 0.0100 mmhos/cm 1.00 2.57 20

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Project: Noble - Achziger (BKG)
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/28/24 07:44

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BHD0557 - General Preparation

LCS (BHD0557-BS1)

Prepared: 04/17/24 Analyzed: 04/19/24

pH	9.18	pH Units	9.18	100	95-105
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Duplicate (BHD0557-DUP1)

Source: 2403483-01

Prepared: 04/17/24 Analyzed: 04/19/24

pH	8.07	pH Units	8.07	0.00	20
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Project: Noble - Achziger (BKG)

Project Number: UWRWE-A1687-ABN

Project Manager: Paul Henchan

Reported:
05/28/24 07:44

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.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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