

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

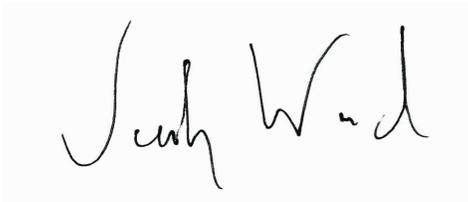
303.277.9310

May 06, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Achziger 11-33
Work Order #2403482

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 blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small flourish at the end of the word "Wood".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger 11-33

Project Number: UWRWE-A1687-ABN

Project Manager: Paul Henchan

Reported:
05/06/24 15:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3'	2403482-01	Soil	03/29/24 11:25	03/29/24 16:30
FL03 3'	2403482-02	Soil	03/29/24 11:30	03/29/24 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2403482	

Send Data To:		Send Invoice To:
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble
Address:	E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:		AFE#:
Phone: 303-261-6246	Project Name: Achziger 11-33	PO/Billing Codes: UWRWE - A1687 - ABW
Sampler Name: Stanley Gilbert	Project Number:	Contact: Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	FLO1 3'	3/29/24	11:25	2			X			X			X	X	X	X	X		
2	FLO3 3'	3/29/24	11:30	2			X			X			X	X	X	X	X		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

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

S₂

Sample Receipt Checklist

S2 Work Order# 2403482

Client: Fairmont

Client Project ID: Achziger 11-33

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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADUE
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"/>	no sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS

Custodian Printed Name

3/29/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Achziger 11-33
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/06/24 15:51

FL01 3'
2403482-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0085	04/03/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0347	86.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0086	04/03/24	04/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.54	60.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL01 3'
2403482-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0043	04/02/24	04/03/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0336	101 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0171	51.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0366	04/11/24	05/05/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL01 3'
2403482-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.45	0.200	mg/kg dry	1	BHD0664	04/19/24	04/26/24	EPA 6020B	
Barium	70.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.86	0.400	"	"	"	"	"	"	
Lead	5.38	0.200	"	"	"	"	"	"	
Nickel	3.86	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	21.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0298	04/10/24	04/11/24	EPA 7196A	

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

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.6	0.0500	mg/L dry	1	BHD0498	04/16/24	04/20/24	EPA 6020B	
Magnesium	12.3	0.0500	"	"	"	"	"	"	
Sodium	7.71	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.301	0.00100	units	1	BHD0716	04/22/24	04/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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FL01 3'
2403482-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.317	0.0100	mmhos/cm	1	BHD0500	04/16/24	04/18/24	EPA 120.1	

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

Date Sampled: **03/29/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BHD0499	04/16/24	04/18/24	EPA 9045D	

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05/06/24 15:51

FL03 3'
2403482-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0085	04/03/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0396	99.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0420	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0086	04/03/24	04/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.58	68.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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05/06/24 15:51

FL03 3'
2403482-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0043	04/02/24	04/03/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0341	102 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0366	04/11/24	05/05/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL03 3'
2403482-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.71	0.200	mg/kg dry	1	BHD0664	04/19/24	04/26/24	EPA 6020B	
Barium	66.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.70	0.400	"	"	"	"	"	"	
Lead	7.19	0.200	"	"	"	"	"	"	
Nickel	4.38	0.400	"	"	"	"	"	"	
Silver	0.0209	0.0200	"	"	"	"	"	"	
Zinc	20.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0298	04/10/24	04/11/24	EPA 7196A	

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

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1020	0.0500	mg/L dry	1	BHD0498	04/16/24	04/20/24	EPA 6020B	
Magnesium	60.6	0.0500	"	"	"	"	"	"	
Sodium	159	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.31	0.00100	units	1	BHD0716	04/22/24	04/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Reported:
 05/06/24 15:51

FL03 3'
2403482-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BHD0262	04/09/24	04/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.399	0.0100	mmhos/cm	1	BHD0500	04/16/24	04/18/24	EPA 120.1	

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

Date Sampled: **03/29/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.51		pH Units	1	BHD0499	04/16/24	04/18/24	EPA 9045D	

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Project Manager: Paul Henchan

Reported:
05/06/24 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHD0085 - EPA 5030 Soil MS

Blank (BHD0085-BLK1)

Prepared: 04/03/24 Analyzed: 04/04/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0297		"	0.0400		74.3	50-150			
<i>Surrogate: Toluene-d8</i>	0.0424		"	0.0400		106	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0391		"	0.0400		97.7	50-150			

LCS (BHD0085-BS1)

Prepared: 04/03/24 Analyzed: 04/04/24

Benzene	0.0865	0.0020	mg/kg	0.100		86.5	70-130			
Toluene	0.108	0.0050	"	0.100		108	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.200	0.010	"	0.200		100	70-130			
o-Xylene	0.101	0.0050	"	0.100		101	70-130			
1,2,4-Trimethylbenzene	0.0878	0.0050	"	0.100		87.8	70-130			
1,3,5-Trimethylbenzene	0.0914	0.0050	"	0.100		91.4	70-130			
Naphthalene	0.0713	0.0038	"	0.100		71.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0316		"	0.0400		79.0	50-150			
<i>Surrogate: Toluene-d8</i>	0.0448		"	0.0400		112	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0403		"	0.0400		101	50-150			

Matrix Spike (BHD0085-MS1)

Source: 2403482-01

Prepared: 04/03/24 Analyzed: 04/04/24

Benzene	0.0757	0.0020	mg/kg	0.100	ND	75.7	70-130			
Toluene	0.0914	0.0050	"	0.100	ND	91.4	70-130			
Ethylbenzene	0.0914	0.0050	"	0.100	ND	91.4	70-130			
m,p-Xylene	0.181	0.010	"	0.200	ND	90.6	70-130			
o-Xylene	0.0893	0.0050	"	0.100	ND	89.3	70-130			
1,2,4-Trimethylbenzene	0.0751	0.0050	"	0.100	ND	75.1	70-130			
1,3,5-Trimethylbenzene	0.0789	0.0050	"	0.100	ND	78.9	70-130			
Naphthalene	0.0589	0.0038	"	0.100	ND	58.9	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0287		"	0.0400		71.7	50-150			
<i>Surrogate: Toluene-d8</i>	0.0436		"	0.0400		109	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0404		"	0.0400		101	50-150			

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 PO Box 1289
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Project: Noble - Achziger 11-33
 Project Number: UWRWE-A1687-ABN
 Project Manager: Paul Henchan

Reported:
 05/06/24 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHD0085 - EPA 5030 Soil MS

Matrix Spike Dup (BHD0085-MSD1)	Source: 2403482-01			Prepared: 04/03/24 Analyzed: 04/04/24						
Benzene	0.0785	0.0020	mg/kg	0.100	ND	78.5	70-130	3.70	30	
Toluene	0.0970	0.0050	"	0.100	ND	97.0	70-130	5.86	30	
Ethylbenzene	0.0909	0.0050	"	0.100	ND	90.9	70-130	0.526	30	
m,p-Xylene	0.182	0.010	"	0.200	ND	91.0	70-130	0.462	30	
o-Xylene	0.0888	0.0050	"	0.100	ND	88.8	70-130	0.606	30	
1,2,4-Trimethylbenzene	0.0779	0.0050	"	0.100	ND	77.9	70-130	3.69	30	
1,3,5-Trimethylbenzene	0.0821	0.0050	"	0.100	ND	82.1	70-130	3.99	30	
Naphthalene	0.0658	0.0038	"	0.100	ND	65.8	70-130	11.2	30	QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0338</i>		<i>"</i>	<i>0.0400</i>		<i>84.6</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0431</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.7</i>	<i>50-150</i>			

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Project: Noble - Achziger 11-33
 Project Number: UWRWE-A1687-ABN
 Project Manager: Paul Henchan

Reported:
 05/06/24 15:51

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHD0086 - EPA 3550A

Blank (BHD0086-BLK1)

Prepared & Analyzed: 04/03/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		111		30-150			

LCS (BHD0086-BS1)

Prepared & Analyzed: 04/03/24

C10-C28 (DRO)	625	50	mg/kg	500		125		70-130			
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		102		30-150			

Matrix Spike (BHD0086-MS1)

Source: 2403482-01

Prepared & Analyzed: 04/03/24

C10-C28 (DRO)	429	50	mg/kg	500	32.1	79.4		70-130			
Surrogate: <i>o</i> -Terphenyl	8.90		"	12.5		71.2		30-150			

Matrix Spike Dup (BHD0086-MSD1)

Source: 2403482-01

Prepared & Analyzed: 04/03/24

C10-C28 (DRO)	385	50	mg/kg	500	32.1	70.5		70-130	11.0	20	
Surrogate: <i>o</i> -Terphenyl	7.26		"	12.5		58.1		30-150			

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Project: Noble - Achziger 11-33
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/06/24 15:51

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHD0043 - EPA 5030 Soil MS

Blank (BHD0043-BLK1)

Prepared & Analyzed: 04/02/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0267</i>		<i>"</i>	<i>0.0333</i>		<i>80.0</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0254</i>		<i>"</i>	<i>0.0333</i>		<i>76.3</i>		<i>40-150</i>		

LCS (BHD0043-BS1)

Prepared & Analyzed: 04/02/24

Acenaphthene	0.0312	0.00500	mg/kg	0.0333		93.6		31-137		
Anthracene	0.0319	0.00500	"	0.0333		95.6		30-120		
Benzo (a) anthracene	0.0291	0.00500	"	0.0333		87.3		30-120		
Benzo (a) pyrene	0.0265	0.00500	"	0.0333		79.5		30-120		
Benzo (b) fluoranthene	0.0261	0.00500	"	0.0333		78.4		30-120		
Benzo (k) fluoranthene	0.0302	0.00500	"	0.0333		90.7		30-120		
Chrysene	0.0329	0.00500	"	0.0333		98.6		30-120		
Dibenz (a,h) anthracene	0.0324	0.00500	"	0.0333		97.3		30-120		
Fluoranthene	0.0278	0.00500	"	0.0333		83.4		30-120		
Fluorene	0.0304	0.00500	"	0.0333		91.3		30-120		
Indeno (1,2,3-cd) pyrene	0.0318	0.00500	"	0.0333		95.5		30-120		
Pyrene	0.0434	0.00500	"	0.0333		130		35-142		
1-Methylnaphthalene	0.0213	0.00500	"	0.0333		63.8		35-142		
2-Methylnaphthalene	0.0201	0.00500	"	0.0333		60.2		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0209</i>		<i>"</i>	<i>0.0333</i>		<i>62.7</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0286</i>		<i>"</i>	<i>0.0333</i>		<i>85.8</i>		<i>40-150</i>		

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Wellington CO, 80549

Project: Noble - Achziger 11-33
Project Number: UWRWE-A1687-ABN
Project Manager: Paul Henchan

Reported:
05/06/24 15:51

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHD0043 - EPA 5030 Soil MS

Matrix Spike (BHD0043-MS1)	Source: 2403430-21			Prepared: 04/02/24 Analyzed: 04/03/24						
Acenaphthene	0.0223	0.00500	mg/kg	0.0333	ND	66.8	31-137			
Anthracene	0.0231	0.00500	"	0.0333	ND	69.3	30-120			
Benzo (a) anthracene	0.0219	0.00500	"	0.0333	ND	65.8	30-120			
Benzo (a) pyrene	0.0194	0.00500	"	0.0333	ND	58.3	30-120			
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120			
Benzo (k) fluoranthene	0.0198	0.00500	"	0.0333	ND	59.3	30-120			
Chrysene	0.0229	0.00500	"	0.0333	ND	68.6	30-120			
Dibenz (a,h) anthracene	0.0235	0.00500	"	0.0333	ND	70.5	30-120			
Fluoranthene	0.0202	0.00500	"	0.0333	ND	60.6	30-120			
Fluorene	0.0224	0.00500	"	0.0333	ND	67.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0224	0.00500	"	0.0333	ND	67.3	30-120			
Pyrene	0.0296	0.00500	"	0.0333	ND	88.8	35-142			
1-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.5	15-130			
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.3	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0468</i>		<i>"</i>	<i>0.0333</i>		<i>140</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0209</i>		<i>"</i>	<i>0.0333</i>		<i>62.8</i>	<i>40-150</i>			

Matrix Spike Dup (BHD0043-MSD1)	Source: 2403430-21			Prepared: 04/02/24 Analyzed: 04/03/24						
Acenaphthene	0.0194	0.00500	mg/kg	0.0333	ND	58.1	31-137	13.8	30	
Anthracene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	9.72	30	
Benzo (a) anthracene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	14.1	30	
Benzo (a) pyrene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	8.58	30	
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	12.6	30	
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	17.8	30	
Chrysene	0.0199	0.00500	"	0.0333	ND	59.6	30-120	14.1	30	
Dibenz (a,h) anthracene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	14.5	30	
Fluoranthene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	9.60	30	
Fluorene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	11.4	30	
Indeno (1,2,3-cd) pyrene	0.0203	0.00500	"	0.0333	ND	60.9	30-120	9.88	30	
Pyrene	0.0254	0.00500	"	0.0333	ND	76.2	35-142	15.3	30	
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130	2.96	50	
2-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.6	15-130	18.8	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0343</i>		<i>"</i>	<i>0.0333</i>		<i>103</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0190</i>		<i>"</i>	<i>0.0333</i>		<i>57.0</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Achziger 11-33
 Project Number: UWRWE-A1687-ABN
 Project Manager: Paul Henchan

Reported:
 05/06/24 15:51

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 BHD0366 - EPA 3050B

Blank (BHD0366-BLK1)

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

Boron ND 2.00 mg/L

LCS (BHD0366-BS1)

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

Boron 5.00 2.00 mg/L 5.00 100 80-120

Duplicate (BHD0366-DUP1)

Source: 2403477-01

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

Boron 0.470 2.00 mg/L 0.408 14.1 20

Matrix Spike (BHD0366-MS1)

Source: 2403477-01

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

Boron 5.17 2.00 mg/L 5.01 0.408 95.1 75-125

Matrix Spike Dup (BHD0366-MSD1)

Source: 2403477-01

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

Boron 5.51 2.00 mg/L 5.01 0.408 102 75-125 6.39 25

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Project: Noble - Achziger 11-33
 Project Number: UWRWE-A1687-ABN
 Project Manager: Paul Henchan

Reported:
 05/06/24 15:51

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 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			

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Project: Noble - Achziger 11-33
 Project Number: UWRWE-A1687-ABN
 Project Manager: Paul Henchan

Reported:
 05/06/24 15:51

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 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	

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Project: Noble - Achziger 11-33
 Project Number: UWRWE-A1687-ABN
 Project Manager: Paul Henchan

Reported:
 05/06/24 15:51

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHD0298 - 3060A Mod

Blank (BHD0298-BLK1)

Prepared: 04/10/24 Analyzed: 04/11/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0298-BS1)

Prepared: 04/10/24 Analyzed: 04/11/24

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.0 80-120

Duplicate (BHD0298-DUP1)

Source: 2403457-01

Prepared: 04/10/24 Analyzed: 04/11/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0298-MS1)

Source: 2403457-01

Prepared: 04/10/24 Analyzed: 04/11/24

Chromium, Hexavalent 28.5 0.30 mg/kg dry 29.6 ND 96.4 75-125

Matrix Spike Dup (BHD0298-MSD1)

Source: 2403457-01

Prepared: 04/10/24 Analyzed: 04/11/24

Chromium, Hexavalent 28.5 0.30 mg/kg dry 29.6 ND 96.4 75-125 0.00 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Achziger 11-33
 Project Number: UWRWE-A1687-ABN
 Project Manager: Paul Henchan

Reported:
 05/06/24 15:51

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

Summit Scientific

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

Batch BHD0498 - General Preparation

Blank (BHD0498-BLK1)

Prepared: 04/16/24 Analyzed: 04/20/24

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

LCS (BHD0498-BS1)

Prepared: 04/16/24 Analyzed: 04/20/24

Calcium	5.86	0.0500	mg/L wet	5.00	117	70-130			
Magnesium	5.13	0.0500	"	5.00	103	70-130			
Sodium	5.07	0.0500	"	5.00	101	70-130			

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.



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

Summit Scientific

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

Batch 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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Summit Scientific



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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 BHD0500 - General Preparation

Blank (BHD0500-BLK1)

Prepared: 04/16/24 Analyzed: 04/18/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0500-BS1)

Prepared: 04/16/24 Analyzed: 04/18/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHD0500-DUP1)

Source: 2403464-01

Prepared: 04/16/24 Analyzed: 04/18/24

Specific Conductance (EC) 1.43 0.0100 mmhos/cm 1.46 1.87 20

Summit Scientific



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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 BHD0499 - General Preparation

LCS (BHD0499-BS1)

Prepared: 04/16/24 Analyzed: 04/18/24

pH	9.22	pH Units	9.18	100	95-105
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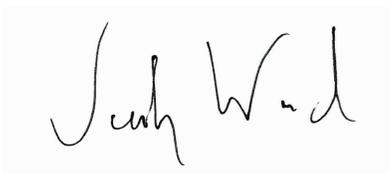
Duplicate (BHD0499-DUP1)

Source: 2403464-01

Prepared: 04/16/24 Analyzed: 04/18/24

pH	7.59	pH Units	7.57	0.264	20
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Summit Scientific



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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-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference