

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 05, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

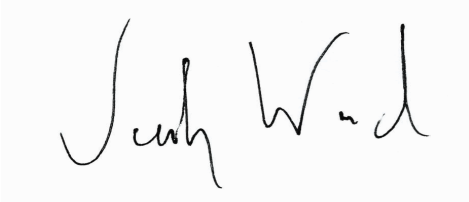
Wellington, CO 80549

RE: Noble - Furrow USX AB 15-99Hz

Work Order #2401330

Enclosed are the results of analyses for samples received by Summit Scientific on 01/19/24 14:01. 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 large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
02/05/24 16:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
99FL01@5.0'	2401330-01	Soil	01/12/24 00:00	01/19/24 14:01
99FL02@4.0'	2401330-02	Soil	01/12/24 00:00	01/19/24 14:01
PJPB01@5.0'	2401330-03	Soil	01/12/24 00:00	01/19/24 14:01
PJPN01@4.0'	2401330-04	Soil	01/12/24 00:00	01/19/24 14:01

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

Lab ID	Page <u>1</u> of <u>1</u>
2401330	

Client: <u>Fremont Env</u>		Project Manager: <u>Paul Henehan</u>		Company: <u>Noble</u>	
Address:		E-Mail: <u>Paulh@fremontenv.com</u>		Project Name/Location: <u>Furrow USX AB 15-99HZ</u>	
City/State/Zip:		<u>Jeffg@fremontenv.com Ethank@fremontenv.com</u>		AFE#:	
Phone:		Project Name: <u>Furrow USX AB 15-99HZ</u>		PO/Billing Codes: <u>UWRWE-A2542-ABN</u>	
Sampler Name: <u>JG</u>		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX+N	T-MBS (915)	DRO,ORO,GRO	PAHs (915)	EC,PH,SAR, Boron	Metals (915)	
1	99FL01@5.0'	01/12/24		2			X			X			X	X	X	X	X	X	
2	99FL02@4.0'	01/12/24		↓									↓	↓	↓	↓	↓	↓	
3	PJPB01@5.0'	01/19/24		↓									↓	↓	↓	↓	↓	↓	
4	PJPN01@4.0'	01/19/24		↓									↓	↓	↓	↓	↓	↓	
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>JG</u>	Date/Time: <u>01/19/24</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/19/24 14:01</u>	TAT Business Days	Field DO	Notes: Bill to Noble
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>5.4</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2401330Client: Fremont Client Project ID: Furrow USX AB 15-99HZShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____ Matrix (Check all that apply) Air Soil/Solid Water Other Temp (°C) Thermometer #

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

Mikayla Axtell

Custodian Printed Name

1/19/24 14:01

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL01@5.0'
2401330-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHA0722	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	67	50	mg/kg	1	BHA0723	01/22/24	01/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.42	59.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2401330-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0752	01/22/24	01/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0288	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0359	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00851	0.00500	"	"	"	"	"	"	
Chrysene	0.0231	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.00507	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0547	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0234	0.00500	"	"	"	"	"	"	
Pyrene	0.0694	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0515	155 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0288	86.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.42	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	

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Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
02/05/24 16:55

99FL01@5.0'
2401330-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	207	0.400	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.63	0.400	"	"	"	"	"	"	
Lead	4.06	0.200	"	"	"	"	"	"	
Nickel	2.91	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0748	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.0	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	5.32	0.0500	"	"	"	"	"	"	
Sodium	3.73	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.161	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Project Manager: Paul Henchan

Reported:
 02/05/24 16:55

99FL01@5.0'
2401330-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.6	%	1	BHA0717	01/22/24	01/23/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/12/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.117	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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99FL01@5.0'
2401330-01 (Soil)

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PAH by EPA Method 8270D SIM

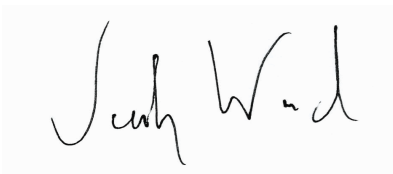
Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	0.00646	0.00500	mg/kg	1	BHA1096	01/22/24	01/31/24	EPA 8270D SIM	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.4 %	40-150		"	"	"	"	

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Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
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02/05/24 16:55

99FL02@4.0'
2401330-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0722	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0430	107 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA0723	01/22/24	01/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.01	56.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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02/05/24 16:55

99FL02@4.0'
2401330-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0752	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0228	68.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0261	78.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL02@4.0'
2401330-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.34	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	85.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.63	0.400	"	"	"	"	"	"	
Lead	8.12	0.200	"	"	"	"	"	"	
Nickel	3.01	0.400	"	"	"	"	"	"	
Silver	0.0395	0.0200	"	"	"	"	"	"	
Zinc	18.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0748	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.2	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	11.1	0.0500	"	"	"	"	"	"	
Sodium	5.02	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.191	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
 Project Number: UWRWE-A2542-ABN
 Project Manager: Paul Henchan

Reported:
 02/05/24 16:55

99FL02@4.0'
2401330-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BHA0717	01/22/24	01/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/12/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.116	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPB01@5.0'
2401330-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHA0722	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0383	95.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0723	01/22/24	01/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.23	57.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPB01@5.0'
2401330-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0752	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0294	88.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0320	96.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPB01@5.0'
2401330-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.35	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	45.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.90	0.400	"	"	"	"	"	"	
Lead	5.45	0.200	"	"	"	"	"	"	
Nickel	2.89	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0748	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.9	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	6.52	0.0500	"	"	"	"	"	"	
Sodium	9.86	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.374	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

PJPB01@5.0'
2401330-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BHA0717	01/22/24	01/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/12/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.166	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.99		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPN01@4.0'
2401330-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHA0722	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0426	106 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0365	91.4 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0723	01/22/24	01/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	6.79	54.3 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPN01@4.0'
2401330-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0752	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPN01@4.0'
2401330-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.43	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	27.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.46	0.400	"	"	"	"	"	"	
Lead	4.12	0.200	"	"	"	"	"	"	
Nickel	2.79	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0748	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.3	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	7.02	0.0500	"	"	"	"	"	"	
Sodium	3.38	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.132	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

PJPN01@4.0'
2401330-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BHA0717	01/22/24	01/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/12/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.120	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.97		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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 BHA0722 - EPA 5030 Soil MS

Blank (BHA0722-BLK1)

Prepared & Analyzed: 01/22/24

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>	0.0356		"	0.0400		89.0	50-150			
<i>Surrogate: Toluene-d8</i>	0.0382		"	0.0400		95.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0393		"	0.0400		98.2	50-150			

LCS (BHA0722-BS1)

Prepared & Analyzed: 01/22/24

Benzene	0.157	0.0020	mg/kg	0.150		105	70-130			
Toluene	0.151	0.0050	"	0.150		101	70-130			
Ethylbenzene	0.152	0.0050	"	0.150		101	70-130			
m,p-Xylene	0.303	0.010	"	0.300		101	70-130			
o-Xylene	0.150	0.0050	"	0.150		99.8	70-130			
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.150		98.4	70-130			
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.150		101	70-130			
Naphthalene	0.138	0.0038	"	0.150		91.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0409		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0403		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0400		105	50-150			

Matrix Spike (BHA0722-MS1)

Source: 2401283-01

Prepared & Analyzed: 01/22/24

Benzene	0.141	0.0020	mg/kg	0.150	ND	93.9	70-130			
Toluene	0.136	0.0050	"	0.150	ND	90.5	70-130			
Ethylbenzene	0.128	0.0050	"	0.150	ND	85.4	70-130			
m,p-Xylene	0.253	0.010	"	0.300	ND	84.4	70-130			
o-Xylene	0.128	0.0050	"	0.150	ND	85.0	70-130			
1,2,4-Trimethylbenzene	0.119	0.0050	"	0.150	ND	79.5	70-130			
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.150	ND	78.8	70-130			
Naphthalene	0.122	0.0038	"	0.150	ND	81.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0428		"	0.0400		107	50-150			
<i>Surrogate: Toluene-d8</i>	0.0404		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0414		"	0.0400		104	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

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 BHA0722 - EPA 5030 Soil MS

Matrix Spike Dup (BHA0722-MSD1)	Source: 2401283-01			Prepared & Analyzed: 01/22/24						
Benzene	0.127	0.0020	mg/kg	0.150	ND	84.9	70-130	10.1	30	
Toluene	0.120	0.0050	"	0.150	ND	80.0	70-130	12.4	30	
Ethylbenzene	0.117	0.0050	"	0.150	ND	78.0	70-130	9.06	30	
m,p-Xylene	0.230	0.010	"	0.300	ND	76.7	70-130	9.54	30	
o-Xylene	0.117	0.0050	"	0.150	ND	77.9	70-130	8.71	30	
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.150	ND	72.4	70-130	9.45	30	
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.150	ND	70.6	70-130	11.0	30	
Naphthalene	0.116	0.0038	"	0.150	ND	77.1	70-130	5.28	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
 Project Number: UWRWE-A2542-ABN
 Project Manager: Paul Henchan

Reported:
 02/05/24 16:55

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 BHA0723 - EPA 3550A

Blank (BHA0723-BLK1)

Prepared & Analyzed: 01/22/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	9.70		"	12.5		77.6	30-150				

LCS (BHA0723-BS1)

Prepared & Analyzed: 01/22/24

C10-C28 (DRO)	471	50	mg/kg	500		94.2	70-130				
Surrogate: <i>o</i> -Terphenyl	9.11		"	12.5		72.9	30-150				

Matrix Spike (BHA0723-MS1)

Source: 2401283-01

Prepared & Analyzed: 01/22/24

C10-C28 (DRO)	431	50	mg/kg	500	12.1	83.8	70-130				
Surrogate: <i>o</i> -Terphenyl	9.17		"	12.5		73.3	30-150				

Matrix Spike Dup (BHA0723-MSD1)

Source: 2401283-01

Prepared & Analyzed: 01/22/24

C10-C28 (DRO)	381	50	mg/kg	500	12.1	73.7	70-130	12.5	20		
Surrogate: <i>o</i> -Terphenyl	7.93		"	12.5		63.4	30-150				

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
02/05/24 16:55

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 BHA0752 - EPA 5030 Soil MS

Blank (BHA0752-BLK1)

Prepared: 01/22/24 Analyzed: 01/23/24

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>0.0290</i>		<i>"</i>	<i>0.0333</i>		<i>87.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0371</i>		<i>"</i>	<i>0.0333</i>		<i>111</i>	<i>40-150</i>			

LCS (BHA0752-BS1)

Prepared: 01/22/24 Analyzed: 01/23/24

Acenaphthene	0.0384	0.00500	mg/kg	0.0333	115	31-137
Anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) anthracene	0.0382	0.00500	"	0.0333	115	30-120
Benzo (a) pyrene	0.0381	0.00500	"	0.0333	114	30-120
Benzo (b) fluoranthene	0.0397	0.00500	"	0.0333	119	30-120
Benzo (k) fluoranthene	0.0384	0.00500	"	0.0333	115	30-120
Chrysene	0.0371	0.00500	"	0.0333	111	30-120
Dibenz (a,h) anthracene	0.0347	0.00500	"	0.0333	104	30-120
Fluoranthene	0.0354	0.00500	"	0.0333	106	30-120
Fluorene	0.0379	0.00500	"	0.0333	114	30-120
Indeno (1,2,3-cd) pyrene	0.0326	0.00500	"	0.0333	97.7	30-120
Pyrene	0.0268	0.00500	"	0.0333	80.4	35-142
1-Methylnaphthalene	0.0387	0.00500	"	0.0333	116	35-142
2-Methylnaphthalene	0.0374	0.00500	"	0.0333	112	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0340</i>		<i>"</i>	<i>0.0333</i>	<i>102</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0407</i>		<i>"</i>	<i>0.0333</i>	<i>122</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
02/05/24 16:55

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 BHA0752 - EPA 5030 Soil MS

Matrix Spike (BHA0752-MS1)

Source: 2401330-02

Prepared: 01/22/24 Analyzed: 01/23/24

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.5	31-137			
Anthracene	0.0243	0.00500	"	0.0333	ND	73.0	30-120			
Benzo (a) anthracene	0.0289	0.00500	"	0.0333	ND	86.7	30-120			
Benzo (a) pyrene	0.0263	0.00500	"	0.0333	ND	79.0	30-120			
Benzo (b) fluoranthene	0.0288	0.00500	"	0.0333	ND	86.3	30-120			
Benzo (k) fluoranthene	0.0238	0.00500	"	0.0333	ND	71.4	30-120			
Chrysene	0.0322	0.00500	"	0.0333	ND	96.7	30-120			
Dibenz (a,h) anthracene	0.0250	0.00500	"	0.0333	ND	75.0	30-120			
Fluoranthene	0.0344	0.00500	"	0.0333	ND	103	30-120			
Fluorene	0.0227	0.00500	"	0.0333	ND	68.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0293	0.00500	"	0.0333	ND	87.9	30-120			
Pyrene	0.0250	0.00500	"	0.0333	ND	75.1	35-142			
1-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.2	15-130			
2-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.0	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.5	40-150			
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.4	40-150			

Matrix Spike Dup (BHA0752-MSD1)

Source: 2401330-02

Prepared: 01/22/24 Analyzed: 01/23/24

Acenaphthene	0.0246	0.00500	mg/kg	0.0333	ND	73.9	31-137	12.1	30
Anthracene	0.0259	0.00500	"	0.0333	ND	77.7	30-120	6.25	30
Benzo (a) anthracene	0.0336	0.00500	"	0.0333	ND	101	30-120	15.1	30
Benzo (a) pyrene	0.0300	0.00500	"	0.0333	ND	90.0	30-120	13.0	30
Benzo (b) fluoranthene	0.0328	0.00500	"	0.0333	ND	98.4	30-120	13.0	30
Benzo (k) fluoranthene	0.0261	0.00500	"	0.0333	ND	78.2	30-120	9.09	30
Chrysene	0.0297	0.00500	"	0.0333	ND	89.2	30-120	8.05	30
Dibenz (a,h) anthracene	0.0287	0.00500	"	0.0333	ND	86.2	30-120	13.8	30
Fluoranthene	0.0397	0.00500	"	0.0333	ND	119	30-120	14.2	30
Fluorene	0.0267	0.00500	"	0.0333	ND	80.1	30-120	16.3	30
Indeno (1,2,3-cd) pyrene	0.0343	0.00500	"	0.0333	ND	103	30-120	15.6	30
Pyrene	0.0334	0.00500	"	0.0333	ND	100	35-142	28.6	30
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.9	15-130	11.6	50
2-Methylnaphthalene	0.0230	0.00500	"	0.0333	ND	69.0	15-130	13.9	50
Surrogate: 2-Methylnaphthalene-d10	0.0232		"	0.0333		69.7	40-150		
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.5	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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 BHA1096 - EPA 5030 Soil MS

Blank (BHA1096-BLK1)

Prepared & Analyzed: 01/31/24

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>0.0236</i>		"	<i>0.0333</i>		<i>70.9</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0213</i>		"	<i>0.0333</i>		<i>63.8</i>		<i>40-150</i>		

LCS (BHA1096-BS1)

Prepared & Analyzed: 01/31/24

Acenaphthene	0.0278	0.00500	mg/kg	0.0333		83.3		31-137		
Anthracene	0.0262	0.00500	"	0.0333		78.6		30-120		
Benzo (a) anthracene	0.0249	0.00500	"	0.0333		74.8		30-120		
Benzo (a) pyrene	0.0252	0.00500	"	0.0333		75.6		30-120		
Benzo (b) fluoranthene	0.0191	0.00500	"	0.0333		57.4		30-120		
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333		51.1		30-120		
Chrysene	0.0269	0.00500	"	0.0333		80.7		30-120		
Dibenz (a,h) anthracene	0.0295	0.00500	"	0.0333		88.6		30-120		
Fluoranthene	0.0261	0.00500	"	0.0333		78.2		30-120		
Fluorene	0.0277	0.00500	"	0.0333		83.0		30-120		
Indeno (1,2,3-cd) pyrene	0.0338	0.00500	"	0.0333		101		30-120		
Pyrene	0.0333	0.00500	"	0.0333		100		35-142		
1-Methylnaphthalene	0.0293	0.00500	"	0.0333		87.9		35-142		
2-Methylnaphthalene	0.0276	0.00500	"	0.0333		82.7		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0273</i>		"	<i>0.0333</i>		<i>82.0</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0258</i>		"	<i>0.0333</i>		<i>77.5</i>		<i>40-150</i>		

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
02/05/24 16:55

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 BHA1096 - EPA 5030 Soil MS

Matrix Spike (BHA1096-MS1)

Source: 2401523-01

Prepared & Analyzed: 01/31/24

Acenaphthene	0.0192	0.00500	mg/kg	0.0333	ND	57.7	31-137			
Anthracene	0.0173	0.00500	"	0.0333	ND	51.9	30-120			
Benzo (a) anthracene	0.0175	0.00500	"	0.0333	ND	52.5	30-120			
Benzo (a) pyrene	0.0174	0.00500	"	0.0333	ND	52.1	30-120			
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	56.9	30-120			
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.8	30-120			
Chrysene	0.0180	0.00500	"	0.0333	ND	54.1	30-120			
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333	ND	60.6	30-120			
Fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Fluorene	0.0202	0.00500	"	0.0333	ND	60.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0222	0.00500	"	0.0333	ND	66.6	30-120			
Pyrene	0.0224	0.00500	"	0.0333	ND	67.1	35-142			
1-Methylnaphthalene	0.0197	0.00500	"	0.0333	ND	59.0	15-130			
2-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0203		"	0.0333		60.8	40-150			
Surrogate: Fluoranthene-d10	0.0189		"	0.0333		56.8	40-150			

Matrix Spike Dup (BHA1096-MSD1)

Source: 2401523-01

Prepared & Analyzed: 01/31/24

Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.4	31-137	15.6	30
Anthracene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	21.9	30
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	20.0	30
Benzo (a) pyrene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	16.4	30
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	8.99	30
Benzo (k) fluoranthene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	15.3	30
Chrysene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	16.7	30
Dibenz (a,h) anthracene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	12.8	30
Fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	15.9	30
Fluorene	0.0219	0.00500	"	0.0333	ND	65.6	30-120	8.21	30
Indeno (1,2,3-cd) pyrene	0.0263	0.00500	"	0.0333	ND	79.0	30-120	17.0	30
Pyrene	0.0290	0.00500	"	0.0333	ND	86.9	35-142	25.7	30
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	70.0	15-130	17.1	50
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.3	15-130	12.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0222		"	0.0333		66.7	40-150		
Surrogate: Fluoranthene-d10	0.0220		"	0.0333		66.0	40-150		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

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 BHA0771 - EPA 3050B

Blank (BHA0771-BLK1)

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

Boron ND 2.00 mg/L

LCS (BHA0771-BS1)

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

Boron 4.89 2.00 mg/L 5.00 97.8 80-120

Duplicate (BHA0771-DUP1)

Source: 2401318-01

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

Boron ND 2.00 mg/L ND 20

Matrix Spike (BHA0771-MS1)

Source: 2401318-01

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

Boron 4.31 2.00 mg/L 5.00 ND 86.1 75-125

Matrix Spike Dup (BHA0771-MSD1)

Source: 2401318-01

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

Boron 4.64 2.00 mg/L 5.00 ND 92.9 75-125 7.55 25

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Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0758 - EPA 3050B

Blank (BHA0758-BLK1)

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

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BHA0758-BS1)

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

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

Duplicate (BHA0758-DUP1)

Source: 2401328-01

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

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0758 - EPA 3050B

Matrix Spike (BHA0758-MS1)

Source: 2401328-01

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

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

Matrix Spike Dup (BHA0758-MSD1)

Source: 2401328-01

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

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
 Project Number: UWRWE-A2542-ABN
 Project Manager: Paul Henchan

Reported:
 02/05/24 16:55

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHA0748 - 3060A Mod

Blank (BHA0748-BLK1)

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0748-BS1)

Prepared & Analyzed: 01/22/24

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

Duplicate (BHA0748-DUP1)

Source: 2401330-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0748-MS1)

Source: 2401330-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 23.8 0.30 mg/kg dry 26.7 ND 89.0 75-125

Matrix Spike Dup (BHA0748-MSD1)

Source: 2401330-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 24.4 0.30 mg/kg dry 26.7 ND 91.2 75-125 2.44 20

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Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

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

Summit Scientific

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

Batch BHA0781 - General Preparation

Blank (BHA0781-BLK1)

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

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

LCS (BHA0781-BS1)

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

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

Summit Scientific

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Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

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

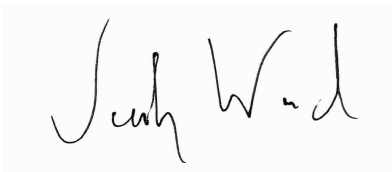
Summit Scientific

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

Batch BHA0717 - General Preparation

Duplicate (BHA0717-DUP1)	Source: 2401317-01	Prepared: 01/22/24	Analyzed: 01/23/24		
% Solids	94.5	%	94.7	0.198	20

Summit Scientific



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Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHA0832 - General Preparation

Blank (BHA0832-BLK1)

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0832-BS1)

Prepared & Analyzed: 01/24/24

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

Duplicate (BHA0832-DUP1)

Source: 2401328-01

Prepared & Analyzed: 01/24/24

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

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Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
 02/05/24 16:55

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

Summit Scientific

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

Batch BHA0831 - General Preparation

LCS (BHA0831-BS1)

Prepared & Analyzed: 01/24/24

pH	9.27	pH Units	9.18	101	95-105
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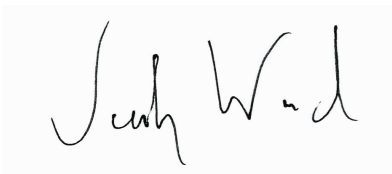
Duplicate (BHA0831-DUP1)

Source: 2401328-01

Prepared & Analyzed: 01/24/24

pH	6.85	pH Units	7.06	3.02	20
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Project: Noble - Furrow USX AB 15-99Hz

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

Reported:
02/05/24 16:55

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference