

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

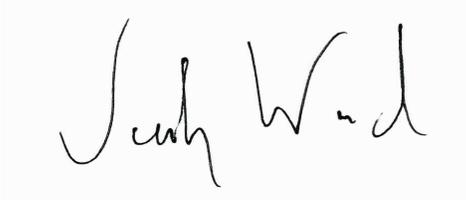
December 04, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Booth CC 31-17D Tank
Work Order #2410156

Enclosed are the results of analyses for samples received by Summit Scientific on 10/10/24 16:33. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN

Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03@7.0'	2410156-01	Soil	10/10/24 00:00	10/10/24 16:33
B04@7.0'	2410156-02	Soil	10/10/24 00:00	10/10/24 16:33
E01@6.0'	2410156-03	Soil	10/10/24 00:00	10/10/24 16:33
E02@6.0'	2410156-04	Soil	10/10/24 00:00	10/10/24 16:33
S02@6.0'	2410156-05	Soil	10/10/24 00:00	10/10/24 16:33

Case Narrative

The Dry Weight analysis for B04@7.0' needed to be rerun in-house for verification purposes.
 Only the rerun results have been included in this report.

Project has been renamed per client request on 12/4/2024.
 This is a revision of the report originally sent on 10/15/2024 at 15:50 MT.

Summit Scientific



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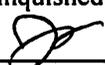
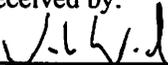
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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2410156	

Send Data To:		Send Invoice To:	
Client: Fremont Env	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location:	
City/State/Zip:	jeff@fremontenv.com Ethemb@fremontenv.com	AFE#:	
Phone:	Project Name: Booth CC 31-71D Tank	PO/Billing Codes: UWRJE-A2250-ARJ	
Sampler Name: JG	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMS (915)	DRO,ORO,GRO	PAHs (915)	EC-IPH 15 AR, 15 AR, 15 AR		Metals (915)		
1	B03@7.0'	10/10/24		2			X							X	X	X	X	X	X		
2	B04@7.0'	↓		↓			↓							↓	↓	↓	↓	↓	↓		
3	E01@6.0'	↓		↓			↓							↓	↓	↓	↓	↓	↓		
4	E02@6.0'	↓		↓			↓							↓	↓	↓	↓	↓	↓		
5	S02@6.0'	↓		↓			↓							↓	↓	↓	↓	↓	↓		
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:  10/10/24 16:33	Date/Time: 10/10/24 16:33	Received by:  10/10/24 16:33	Date/Time: 10/10/24 16:33	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 7.0	Corrected Temperature	IR gun #: 7	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2410156

Client: Noble-Fremont Client Project ID: Booth CC 31-710 Tindy

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

Additional Comments (if any):

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

Control Form #: SRC-001

John V. ...

Custodian Printed Name

10/10/24 16:33

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

B03@7.0'
2410156-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0399	10/10/24	10/10/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0431	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0403	10/10/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.5	116 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

B03@7.0'
2410156-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0414	10/11/24	10/11/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0167	50.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0433	10/11/24	10/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/10/24 00:00**

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

Project: Noble - Booth CC 31-17D Tank
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

B03@7.0'
2410156-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.11	0.200	mg/kg dry	1	BHJ0423	10/11/24	10/11/24	EPA 6020B
Barium	61.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.47	0.400	"	"	"	"	"	"
Lead	5.40	0.200	"	"	"	"	"	"
Nickel	3.98	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	15.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0430	10/11/24	10/11/24	EPA 7196A	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.5	0.0500	mg/L dry	1	BHJ0394	10/10/24	10/11/24	EPA 6020B	
Magnesium	10.4	0.0500	"	"	"	"	"	"	
Sodium	3.79	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.148	0.00100	units	1	BHJ0492	10/14/24	10/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

B03@7.0'
2410156-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BHJ0420	10/11/24	10/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.188	0.0100	mmhos/cm	1	BHJ0395	10/10/24	10/11/24	EPA 120.1	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHJ0396	10/10/24	10/11/24	EPA 9045D	

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Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

B04@7.0'
2410156-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0399	10/10/24	10/10/24	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: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0426	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	95.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0403	10/10/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.0	120 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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B04@7.0'
2410156-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0414	10/11/24	10/11/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0154	46.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0433	10/11/24	10/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Booth CC 31-17D Tank
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Project Manager: Paul Henchan

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12/04/24 12:27

B04@7.0'
2410156-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.25	0.200	mg/kg dry	1	BHJ0423	10/11/24	10/11/24	EPA 6020B
Barium	61.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.13	0.400	"	"	"	"	"	"
Lead	4.63	0.200	"	"	"	"	"	"
Nickel	3.35	0.400	"	"	"	"	"	"
Silver	0.0209	0.0200	"	"	"	"	"	"
Zinc	14.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0430	10/11/24	10/11/24	EPA 7196A	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.8	0.0500	mg/L dry	1	BHJ0394	10/10/24	10/11/24	EPA 6020B	
Magnesium	7.68	0.0500	"	"	"	"	"	"	
Sodium	6.71	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.552	0.00100	units	1	BHJ0492	10/14/24	10/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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B04@7.0'
2410156-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.209	0.0100		mmhos/cm	1	BHJ0395	10/10/24	10/11/24	EPA 120.1	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.29			pH Units	1	BHJ0396	10/10/24	10/11/24	EPA 9045D	

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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank
 Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

B04@7.0'
2410156-02RE1 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	93.1			%	1	BHJ0525	10/11/24	10/15/24	Calculation	

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

E01@6.0'
2410156-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0399	10/10/24	10/10/24	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: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0418	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0403	10/10/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.2	121 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

E01@6.0'
2410156-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0414	10/11/24	10/11/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0167	50.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0433	10/11/24	10/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

E01@6.0'
2410156-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.43	0.200	mg/kg dry	1	BHJ0423	10/11/24	10/11/24	EPA 6020B	
Barium	58.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.55	0.400	"	"	"	"	"	"	
Lead	3.82	0.200	"	"	"	"	"	"	
Nickel	2.90	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0430	10/11/24	10/11/24	EPA 7196A	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.1	0.0500	mg/L dry	1	BHJ0394	10/10/24	10/11/24	EPA 6020B	
Magnesium	6.81	0.0500	"	"	"	"	"	"	
Sodium	1.88	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0884	0.00100	units	1	BHJ0492	10/14/24	10/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

E01@6.0'
2410156-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BHJ0420	10/11/24	10/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/10/24 00:00**

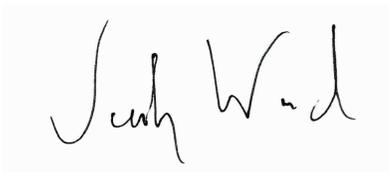
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.174	0.0100	mmhos/cm	1	BHJ0395	10/10/24	10/11/24	EPA 120.1	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BHJ0396	10/10/24	10/11/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

E02@6.0'
2410156-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0399	10/10/24	10/10/24	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: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0403	10/10/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.6	117 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

E02@6.0'
2410156-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0414	10/11/24	10/11/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0433	10/11/24	10/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

E02@6.0'
2410156-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.25	0.200	mg/kg dry	1	BHJ0423	10/11/24	10/11/24	EPA 6020B	
Barium	51.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.80	0.400	"	"	"	"	"	"	
Lead	3.70	0.200	"	"	"	"	"	"	
Nickel	2.94	0.400	"	"	"	"	"	"	
Silver	0.0221	0.0200	"	"	"	"	"	"	
Zinc	12.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0430	10/11/24	10/11/24	EPA 7196A	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.2	0.0500	mg/L dry	1	BHJ0394	10/10/24	10/11/24	EPA 6020B	
Magnesium	8.80	0.0500	"	"	"	"	"	"	
Sodium	6.35	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.277	0.00100	units	1	BHJ0492	10/14/24	10/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

E02@6.0'
2410156-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BHJ0420	10/11/24	10/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.229	0.0100	mmhos/cm	1	BHJ0395	10/10/24	10/11/24	EPA 120.1	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BHJ0396	10/10/24	10/11/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

S02@6.0'
2410156-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0399	10/10/24	10/10/24	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: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0403	10/10/24	10/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.8	94.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

S02@6.0'
2410156-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0414	10/11/24	10/11/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0162	48.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0433	10/11/24	10/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/10/24 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 - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

S02@6.0'
2410156-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.06	0.200	mg/kg dry	1	BHJ0423	10/11/24	10/11/24	EPA 6020B
Barium	42.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.24	0.400	"	"	"	"	"	"
Lead	2.71	0.200	"	"	"	"	"	"
Nickel	2.47	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.69	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0430	10/11/24	10/11/24	EPA 7196A	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.1	0.0500	mg/L dry	1	BHJ0394	10/10/24	10/11/24	EPA 6020B	
Magnesium	6.02	0.0500	"	"	"	"	"	"	
Sodium	3.95	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.217	0.00100	units	1	BHJ0492	10/14/24	10/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

S02@6.0'
2410156-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BHJ0420	10/11/24	10/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/10/24 00:00**

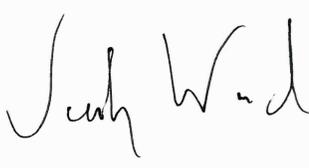
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	1	BHJ0395	10/10/24	10/11/24	EPA 120.1	

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

Date Sampled: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BHJ0396	10/10/24	10/11/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0399 - EPA 5030 Soil MS

Blank (BHJ0399-BLK1)

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

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

LCS (BHJ0399-BS1)

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

Benzene	0.0962	0.0020	mg/kg	0.100		96.2	70-130			
Toluene	0.0986	0.0050	"	0.100		98.6	70-130			
Ethylbenzene	0.0971	0.0050	"	0.100		97.1	70-130			
m,p-Xylene	0.196	0.010	"	0.200		98.1	70-130			
o-Xylene	0.0972	0.0050	"	0.100		97.2	70-130			
1,2,4-Trimethylbenzene	0.0974	0.0050	"	0.100		97.4	70-130			
1,3,5-Trimethylbenzene	0.0957	0.0050	"	0.100		95.7	70-130			
Naphthalene	0.0922	0.0038	"	0.100		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.7	50-150			

Matrix Spike (BHJ0399-MS1)

Source: 2410155-01

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

Benzene	0.0947	0.0020	mg/kg	0.100	ND	94.7	70-130			
Toluene	0.0973	0.0050	"	0.100	ND	97.3	70-130			
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
m,p-Xylene	0.209	0.010	"	0.200	ND	104	70-130			
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
Naphthalene	0.0860	0.0038	"	0.100	ND	86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0400		98.8	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

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Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

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 BHJ0399 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ0399-MSD1)	Source: 2410155-01			Prepared: 10/10/24 Analyzed: 10/11/24						
Benzene	0.0947	0.0020	mg/kg	0.100	ND	94.7	70-130	0.0317	30	
Toluene	0.0970	0.0050	"	0.100	ND	97.0	70-130	0.340	30	
Ethylbenzene	0.0986	0.0050	"	0.100	ND	98.6	70-130	4.63	30	
m,p-Xylene	0.205	0.010	"	0.200	ND	102	70-130	2.03	30	
o-Xylene	0.0960	0.0050	"	0.100	ND	96.0	70-130	5.56	30	
1,2,4-Trimethylbenzene	0.0986	0.0050	"	0.100	ND	98.6	70-130	2.79	30	
1,3,5-Trimethylbenzene	0.0990	0.0050	"	0.100	ND	99.0	70-130	2.46	30	
Naphthalene	0.0875	0.0038	"	0.100	ND	87.5	70-130	1.80	30	
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.5	50-150			

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Project: Noble - Booth CC 31-17D Tank
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

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 BHJ0403 - EPA 3550A

Blank (BHJ0403-BLK1)

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

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.9		"	12.5		87.2	30-150				

LCS (BHJ0403-BS1)

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

C10-C28 (DRO)	416	50	mg/kg	500		83.1	70-130				
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5		87.7	30-150				

Matrix Spike (BHJ0403-MS1)

Source: 2410155-01

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

C10-C28 (DRO)	442	50	mg/kg	500	17.9	84.9	70-130				
Surrogate: <i>o</i> -Terphenyl	7.37		"	12.5		59.0	30-150				

Matrix Spike Dup (BHJ0403-MSD1)

Source: 2410155-01

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

C10-C28 (DRO)	459	50	mg/kg	500	17.9	88.2	70-130	3.67	20		
Surrogate: <i>o</i> -Terphenyl	6.68		"	12.5		53.5	30-150				

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Fremont Environmental
PO Box 1289
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Project: Noble - Booth CC 31-17D Tank
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

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 BHJ0414 - EPA 5030 Soil MS

Blank (BHJ0414-BLK1)

Prepared & Analyzed: 10/11/24

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>0.0259</i>		<i>"</i>	<i>0.0333</i>		<i>77.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0298</i>		<i>"</i>	<i>0.0333</i>		<i>89.3</i>	<i>40-150</i>			

LCS (BHJ0414-BS1)

Prepared & Analyzed: 10/11/24

Acenaphthene	0.0249	0.00500	mg/kg	0.0333	74.7	31-137
Anthracene	0.0258	0.00500	"	0.0333	77.5	30-120
Benzo (a) anthracene	0.0258	0.00500	"	0.0333	77.4	30-120
Benzo (a) pyrene	0.0230	0.00500	"	0.0333	68.9	30-120
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333	70.1	30-120
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333	71.6	30-120
Chrysene	0.0255	0.00500	"	0.0333	76.5	30-120
Dibenz (a,h) anthracene	0.0207	0.00500	"	0.0333	62.0	30-120
Fluoranthene	0.0247	0.00500	"	0.0333	74.2	30-120
Fluorene	0.0251	0.00500	"	0.0333	75.2	30-120
Indeno (1,2,3-cd) pyrene	0.0229	0.00500	"	0.0333	68.6	30-120
Pyrene	0.0249	0.00500	"	0.0333	74.6	35-142
1-Methylnaphthalene	0.0239	0.00500	"	0.0333	71.8	35-142
2-Methylnaphthalene	0.0238	0.00500	"	0.0333	71.3	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0240</i>		<i>"</i>	<i>0.0333</i>	<i>72.0</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0257</i>		<i>"</i>	<i>0.0333</i>	<i>77.1</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

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 BHJ0414 - EPA 5030 Soil MS

Matrix Spike (BHJ0414-MS1)	Source: 2410155-01			Prepared & Analyzed: 10/11/24							
Acenaphthene	0.0168	0.00500	mg/kg	0.0333	ND	50.3	31-137				
Anthracene	0.0175	0.00500	"	0.0333	ND	52.5	30-120				
Benzo (a) anthracene	0.0145	0.00500	"	0.0333	ND	43.5	30-120				
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120				
Benzo (b) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.5	30-120				
Benzo (k) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120				
Chrysene	0.0140	0.00500	"	0.0333	ND	41.9	30-120				
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	42.9	30-120				
Fluoranthene	0.0169	0.00500	"	0.0333	ND	50.8	30-120				
Fluorene	0.0177	0.00500	"	0.0333	ND	53.0	30-120				
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.6	30-120				
Pyrene	0.0141	0.00500	"	0.0333	ND	42.4	35-142				
1-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.0	15-130				
2-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.0	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0167</i>		<i>"</i>	<i>0.0333</i>		<i>50.1</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0173</i>		<i>"</i>	<i>0.0333</i>		<i>51.9</i>	<i>40-150</i>				

Matrix Spike Dup (BHJ0414-MSD1)	Source: 2410155-01			Prepared & Analyzed: 10/11/24							
Acenaphthene	0.0194	0.00500	mg/kg	0.0333	ND	58.3	31-137	14.9	30		
Anthracene	0.0222	0.00500	"	0.0333	ND	66.7	30-120	23.8	30		
Benzo (a) anthracene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	17.3	30		
Benzo (a) pyrene	0.0169	0.00500	"	0.0333	ND	50.8	30-120	7.52	30		
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	30-120	14.3	30		
Benzo (k) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	10.1	30		
Chrysene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	14.9	30		
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	ND	43.6	30-120	1.62	30		
Fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	24.4	30		
Fluorene	0.0203	0.00500	"	0.0333	ND	60.8	30-120	13.7	30		
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.3	30-120	1.56	30		
Pyrene	0.0157	0.00500	"	0.0333	ND	47.2	35-142	10.8	30		
1-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.2	15-130	1.66	50		
2-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.0	15-130	0.126	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0171</i>		<i>"</i>	<i>0.0333</i>		<i>51.4</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0226</i>		<i>"</i>	<i>0.0333</i>		<i>67.8</i>	<i>40-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

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

Summit Scientific

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

Batch BHJ0433 - EPA 3050B

Blank (BHJ0433-BLK1)

Prepared: 10/11/24 Analyzed: 10/12/24

Boron ND 2.00 mg/L

LCS (BHJ0433-BS1)

Prepared: 10/11/24 Analyzed: 10/12/24

Boron 4.80 2.00 mg/L 5.00 96.1 80-120

Duplicate (BHJ0433-DUP1)

Source: 2410155-01

Prepared: 10/11/24 Analyzed: 10/12/24

Boron 0.145 2.00 mg/L 0.250 53.2 20 QR-01

Matrix Spike (BHJ0433-MS1)

Source: 2410155-01

Prepared: 10/11/24 Analyzed: 10/12/24

Boron 4.93 2.00 mg/L 5.00 0.250 93.6 75-125

Matrix Spike Dup (BHJ0433-MSD1)

Source: 2410155-01

Prepared: 10/11/24 Analyzed: 10/12/24

Boron 5.14 2.00 mg/L 5.00 0.250 97.8 75-125 4.17 25

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PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

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 BHJ0423 - EPA 3050B

Blank (BHJ0423-BLK1)

Prepared & Analyzed: 10/11/24

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 (BHJ0423-BS1)

Prepared & Analyzed: 10/11/24

Arsenic	35.3	0.200	mg/kg wet	38.5	91.8	80-120
Barium	33.7	0.400	"	38.5	87.7	80-120
Cadmium	1.67	0.200	"	1.92	87.0	80-120
Copper	36.0	0.400	"	38.5	93.6	80-120
Lead	16.1	0.200	"	19.2	83.9	80-120
Nickel	35.5	0.400	"	38.5	92.2	80-120
Silver	1.65	0.0200	"	1.92	85.6	80-120
Zinc	35.8	0.400	"	38.5	93.0	80-120
Selenium	3.64	0.260	"	3.85	94.6	80-120

Duplicate (BHJ0423-DUP1)

Source: 2410155-01

Prepared & Analyzed: 10/11/24

Arsenic	0.583	0.200	mg/kg dry	0.606	3.86	20
Barium	25.7	0.400	"	26.0	0.984	20
Cadmium	0.0657	0.200	"	0.0646	1.64	20
Copper	2.33	0.400	"	2.47	5.70	20
Lead	3.19	0.200	"	3.10	2.85	20
Nickel	1.86	0.400	"	2.22	17.4	20
Silver	0.0129	0.0200	"	0.0130	1.17	20
Zinc	9.24	0.400	"	10.2	9.62	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

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 BHJ0423 - EPA 3050B

Matrix Spike (BHJ0423-MS1)	Source: 2410155-01			Prepared & Analyzed: 10/11/24								
Arsenic	34.0	0.200	mg/kg dry	45.2	0.606	73.8	75-125					QM-05
Barium	74.7	0.400	"	45.2	26.0	108	75-125					
Cadmium	2.20	0.200	"	2.26	0.0646	94.4	75-125					
Copper	36.0	0.400	"	45.2	2.47	74.2	75-125					QM-05
Lead	26.3	0.200	"	22.6	3.10	103	75-125					
Nickel	35.5	0.400	"	45.2	2.22	73.5	75-125					QM-05
Silver	2.09	0.0200	"	2.26	0.0130	91.6	75-125					
Zinc	44.0	0.400	"	45.2	10.2	74.7	75-125					QM-05
Selenium	4.30	0.260	"	4.52	ND	95.0	75-125					

Matrix Spike Dup (BHJ0423-MSD1)	Source: 2410155-01			Prepared & Analyzed: 10/11/24								
Arsenic	34.7	0.200	mg/kg dry	44.9	0.606	76.0	75-125	2.12	25			
Barium	67.2	0.400	"	44.9	26.0	91.9	75-125	10.5	25			
Cadmium	2.06	0.200	"	2.24	0.0646	88.8	75-125	6.61	25			
Copper	36.3	0.400	"	44.9	2.47	75.3	75-125	0.696	25			
Lead	22.2	0.200	"	22.4	3.10	85.2	75-125	16.9	25			
Nickel	35.8	0.400	"	44.9	2.22	74.8	75-125	0.954	25			QM-05
Silver	1.97	0.0200	"	2.24	0.0130	87.2	75-125	5.64	25			
Zinc	44.6	0.400	"	44.9	10.2	76.6	75-125	1.34	25			
Selenium	4.12	0.260	"	4.49	ND	91.8	75-125	4.24	25			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHJ0430 - 3060A Mod

Blank (BHJ0430-BLK1)

Prepared & Analyzed: 10/11/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ0430-BS1)

Prepared & Analyzed: 10/11/24

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BHJ0430-DUP1)

Source: 2410156-01

Prepared & Analyzed: 10/11/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ0430-MS1)

Source: 2410156-01

Prepared & Analyzed: 10/11/24

Chromium, Hexavalent 29.0 0.30 mg/kg dry 26.7 ND 109 75-125

Matrix Spike Dup (BHJ0430-MSD1)

Source: 2410156-01

Prepared & Analyzed: 10/11/24

Chromium, Hexavalent 28.3 0.30 mg/kg dry 26.7 ND 106 75-125 2.42 20

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

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 BHJ0394 - General Preparation

Blank (BHJ0394-BLK1)

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

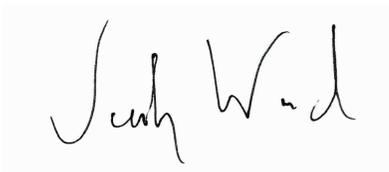
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BHJ0394-BS1)

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

Calcium	5.20	0.0500	mg/L wet	5.00	104	70-130				
Magnesium	5.29	0.0500	"	5.00	106	70-130				
Sodium	5.63	0.0500	"	5.00	113	70-130				

Summit Scientific



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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

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 BHJ0420 - General Preparation

Duplicate (BHJ0420-DUP1)		Source: 2410153-01			Prepared & Analyzed: 10/11/24			
% Solids	93.2		%		93.5		0.344	20

Batch BHJ0525 - General Preparation

Duplicate (BHJ0525-DUP1)		Source: 2410156-02RE1			Prepared & Analyzed: 10/15/24			
% Solids	93.0		%		93.1		0.108	20

Summit Scientific



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Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

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

Summit Scientific

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

Batch BHJ0395 - General Preparation

Blank (BHJ0395-BLK1)

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

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ0395-BS1)

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

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BHJ0395-DUP1)

Source: 2410156-01

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

Specific Conductance (EC) 0.188 0.0100 mmhos/cm 0.188 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
 Project Manager: Paul Henchan

Reported:
 12/04/24 12:27

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 BHJ0396 - General Preparation

LCS (BHJ0396-BS1)

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

pH	9.25	pH Units	9.18	101	95-105
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Duplicate (BHJ0396-DUP1)

Source: 2410156-01

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

pH	8.54	pH Units	8.53	0.117	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:27

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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