

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 04, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

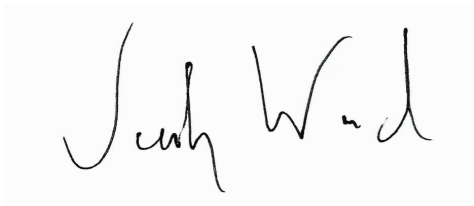
Wellington, CO 80549

RE: Noble - Booth CC 31-17D Tank

Work Order #2410119

Enclosed are the results of analyses for samples received by Summit Scientific on 10/08/24 16:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

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 12:20

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@7.0'	2410119-01	Soil	10/08/24 00:00	10/08/24 16:57
N01@6.0'	2410119-02	Soil	10/08/24 00:00	10/08/24 16:57
W01@6.0'	2410119-03	Soil	10/08/24 00:00	10/08/24 16:57
Backfill	2410119-04	Soil	10/08/24 00:00	10/08/24 16:57

#### Case Narrative

This project has been renamed per client request on 12/4/2024.

This is a revision of the report originally sent on 10/10/2024 at 10:27 AM MT.

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.*

# SUMMIT SCIENTIFIC

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

Lab ID	Page <u>1</u> of <u>1</u>
2410119	

Client: <u>Fremont Env</u>		Send Data To:		Send Invoice To:	
Address:		Project Manager: <u>Paul Henchan</u>		Company: <u>Noble</u>	
City/State/Zip:		E-Mail: <u>Paul.H@fremontenv.com</u>		Project Name/Location:	
Phone:		<u>jeff@fremontenv.com</u> <u>Ethan@fremontenv.com</u>		AFE#:	
Sampler Name: <u>JG</u>		Project Name: <u>Booth CC 31-71D Tank</u>		PO/Billing Codes: <u>VWRWE-A2250-ABN</u>	
		Project Number:		Contact:	

					Preservative		Matrix		Analysis Requested						Special Instructions					
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX+N	TMBs (915)	DRD, ORD, GRD	PAHs (915)	EC, PH, SAR, <sup>Isoprop</sup>	Metals (915)		
1	Boile 7.0'	10/8/24		2			X			X			X	X	X	X	X	X		
2	Noile 6.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	↓		
3	Wole 6.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	↓		
4	Backfill	↓		↓			↓			↓			↓	↓	↓	↓	↓	↓		
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/8/24</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/8/24 16:57</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
				Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <u>14.9°C</u>	Corrected Temperature _____	IR gun #: <u>92</u>	HNO3 lot #: _____			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2410119Client: Fremont Env. Client Project ID: Booth CL 31-71D TankShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_
☒ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

19.8°C

Thermometer #

02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<u>on ice</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<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"/>	<u>same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form #: SRC-001

GAZ  
Custodian Printed Name

10/24 16:57  
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 12:20

**B01@7.0'**  
**2410119-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0317	10/08/24	10/08/24	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: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0431	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0318	10/08/24	10/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.83	78.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 12:20

**B01@7.0'**  
**2410119-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0322	10/09/24	10/09/24	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: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>4.25</b>	2.00	mg/L	1	BHJ0333	10/09/24	10/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/08/24 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 12:20

**B01@7.0'**  
**2410119-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.46	0.200	mg/kg dry	1	BHJ0334	10/09/24	10/09/24	EPA 6020B
Barium	64.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	6.95	0.400	"	"	"	"	"	"
Lead	5.26	0.200	"	"	"	"	"	"
Nickel	6.35	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	27.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0324	10/09/24	10/09/24	EPA 7196A	

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

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	413	0.0500	mg/L dry	1	BHJ0308	10/08/24	10/09/24	EPA 6020B	
Magnesium	15.5	0.0500	"	"	"	"	"	"	
Sodium	276	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.63	0.00100	units	1	BHJ0368	10/10/24	10/10/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

**Reported:**  
12/04/24 12:20

**B01@7.0'**  
**2410119-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.1		%	1	BHJ0321	10/09/24	10/09/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.633	0.0100	mmhos/cm	1	BHJ0309	10/08/24	10/09/24	EPA 120.1	

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

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.91		pH Units	1	BHJ0310	10/08/24	10/09/24	EPA 9045D	

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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 12:20

**N01@6.0'**  
**2410119-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0317	10/08/24	10/08/24	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: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0458	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0318	10/08/24	10/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.8	86.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Manager: Paul Henchan

**Reported:**  
12/04/24 12:20

**N01@6.0'**  
**2410119-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0322	10/09/24	10/09/24	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: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0200	59.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0333	10/09/24	10/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/08/24 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 12:20

**N01@6.0'**  
**2410119-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.18	0.200	mg/kg dry	1	BHJ0334	10/09/24	10/09/24	EPA 6020B
Barium	38.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.50	0.400	"	"	"	"	"	"
Lead	2.54	0.200	"	"	"	"	"	"
Nickel	2.63	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0324	10/09/24	10/09/24	EPA 7196A	

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

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	223	0.0500	mg/L dry	1	BHJ0308	10/08/24	10/09/24	EPA 6020B	
Magnesium	23.2	0.0500	"	"	"	"	"	"	
Sodium	3.45	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0588	0.00100	units	1	BHJ0368	10/10/24	10/10/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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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 12:20

**N01@6.0'**  
**2410119-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BHJ0321	10/09/24	10/09/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.127	0.0100	mmhos/cm	1	BHJ0309	10/08/24	10/09/24	EPA 120.1	

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

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.85		pH Units	1	BHJ0310	10/08/24	10/09/24	EPA 9045D	

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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 12:20

**W01@6.0'**  
**2410119-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0317	10/08/24	10/08/24	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: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0459	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0424	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0318	10/08/24	10/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.7	102 %	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 12:20

**W01@6.0'**  
**2410119-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0322	10/09/24	10/09/24	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: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0216	64.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHJ0333	10/09/24	10/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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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 12:20

**W01@6.0'**  
**2410119-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.20	0.200	mg/kg dry	1	BHJ0334	10/09/24	10/09/24	EPA 6020B
Barium	38.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.63	0.400	"	"	"	"	"	"
Lead	2.71	0.200	"	"	"	"	"	"
Nickel	2.71	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0324	10/09/24	10/09/24	EPA 7196A	

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

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	476	0.0500	mg/L dry	1	BHJ0308	10/08/24	10/09/24	EPA 6020B	
Magnesium	26.1	0.0500	"	"	"	"	"	"	
Sodium	4.03	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0487	0.00100	units	1	BHJ0368	10/10/24	10/10/24	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 12:20

**W01@6.0'**  
**2410119-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BHJ0321	10/09/24	10/09/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.115	0.0100	mmhos/cm	1	BHJ0309	10/08/24	10/09/24	EPA 120.1	

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

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.87		pH Units	1	BHJ0310	10/08/24	10/09/24	EPA 9045D	

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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 12:20

**Backfill**  
**2410119-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0317	10/08/24	10/08/24	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: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0540	135 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0424	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0318	10/08/24	10/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.4	99.4 %	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 12:20

**Backfill**  
**2410119-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0322	10/09/24	10/09/24	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: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0233	69.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0333	10/09/24	10/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 12:20

**Backfill**  
**2410119-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.85	0.200	mg/kg dry	1	BHJ0334	10/09/24	10/09/24	EPA 6020B
Barium	85.3	0.400	"	"	"	"	"	"
Cadmium	0.205	0.200	"	"	"	"	"	"
Copper	7.71	0.400	"	"	"	"	"	"
Lead	6.92	0.200	"	"	"	"	"	"
Nickel	7.83	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	29.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0324	10/09/24	10/09/24	EPA 7196A	

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

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	169	0.0500	mg/L dry	1	BHJ0308	10/08/24	10/09/24	EPA 6020B	
Magnesium	14.3	0.0500	"	"	"	"	"	"	
Sodium	61.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.21	0.00100	units	1	BHJ0368	10/10/24	10/10/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

**Reported:**  
12/04/24 12:20

**Backfill**  
**2410119-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BHJ0321	10/09/24	10/09/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.338	0.0100	mmhos/cm	1	BHJ0309	10/08/24	10/09/24	EPA 120.1	

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

Date Sampled: **10/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.96		pH Units	1	BHJ0310	10/08/24	10/09/24	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 12:20

## 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 BHJ0317 - EPA 5030 Soil MS

##### Blank (BHJ0317-BLK1)

Prepared & Analyzed: 10/08/24

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	0.0471		"	0.0400		118	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400		105	50-150			

##### LCS (BHJ0317-BS1)

Prepared: 10/08/24 Analyzed: 10/09/24

Benzene	0.103	0.0020	mg/kg	0.100		103	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.207	0.010	"	0.200		103	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.0867	0.0038	"	0.100		86.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0415		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

##### Matrix Spike (BHJ0317-MS1)

Source: 2410119-01

Prepared: 10/08/24 Analyzed: 10/09/24

Benzene	0.0981	0.0020	mg/kg	0.100	ND	98.1	70-130			
Toluene	0.103	0.0050	"	0.100	ND	103	70-130			
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
m,p-Xylene	0.206	0.010	"	0.200	ND	103	70-130			
o-Xylene	0.0999	0.0050	"	0.100	ND	99.9	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
Naphthalene	0.0839	0.0038	"	0.100	ND	83.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.3	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	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 12:20

**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 BHJ0317 - EPA 5030 Soil MS**

Matrix Spike Dup (BHJ0317-MSD1)		Source: 2410119-01			Prepared: 10/08/24 Analyzed: 10/09/24					
Benzene	0.0976	0.0020	mg/kg	0.100	ND	97.6	70-130	0.521	30	
Toluene	0.0994	0.0050	"	0.100	ND	99.4	70-130	3.47	30	
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130	7.21	30	
m,p-Xylene	0.195	0.010	"	0.200	ND	97.4	70-130	5.39	30	
o-Xylene	0.0963	0.0050	"	0.100	ND	96.3	70-130	3.70	30	
1,2,4-Trimethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130	6.89	30	
1,3,5-Trimethylbenzene	0.0981	0.0050	"	0.100	ND	98.1	70-130	8.72	30	
Naphthalene	0.0834	0.0038	"	0.100	ND	83.4	70-130	0.538	30	
Surrogate: 1,2-Dichloroethane-d4		0.0412	"	0.0400		103	50-150			
Surrogate: Toluene-d8		0.0412	"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene		0.0397	"	0.0400		99.3	50-150			

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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 12:20

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHJ0318 - EPA 3550A**

**Blank (BHJ0318-BLK1)**

Prepared: 10/08/24 Analyzed: 10/09/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.8		"	12.5		103	30-150			

**LCS (BHJ0318-BS1)**

Prepared: 10/08/24 Analyzed: 10/09/24

C10-C28 (DRO)	471	50	mg/kg	500		94.3	70-130			
Surrogate: o-Terphenyl	12.7		"	12.5		101	30-150			

**Matrix Spike (BHJ0318-MS1)**

Source: 2410119-01

Prepared: 10/08/24 Analyzed: 10/09/24

C10-C28 (DRO)	428	50	mg/kg	500	ND	85.7	70-130			
Surrogate: o-Terphenyl	11.4		"	12.5		91.4	30-150			

**Matrix Spike Dup (BHJ0318-MSD1)**

Source: 2410119-01

Prepared: 10/08/24 Analyzed: 10/09/24

C10-C28 (DRO)	312	50	mg/kg	500	ND	62.4	70-130	31.4	20	QM-05
Surrogate: o-Terphenyl	12.9		"	12.5		103	30-150			

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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 12:20

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BHJ0322 - EPA 5030 Soil MS

##### Blank (BHJ0322-BLK1)

Prepared & Analyzed: 10/09/24

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0223		"	0.0333		67.0	40-150			
Surrogate: Fluoranthene-d10	0.0265		"	0.0333		79.5	40-150			

##### LCS (BHJ0322-BS1)

Prepared & Analyzed: 10/09/24

Acenaphthene	0.0242	0.00500	mg/kg	0.0333		72.6	31-137			
Anthracene	0.0243	0.00500	"	0.0333		72.8	30-120			
Benzo (a) anthracene	0.0246	0.00500	"	0.0333		73.9	30-120			
Benzo (a) pyrene	0.0228	0.00500	"	0.0333		68.5	30-120			
Benzo (b) fluoranthene	0.0226	0.00500	"	0.0333		67.9	30-120			
Benzo (k) fluoranthene	0.0223	0.00500	"	0.0333		67.0	30-120			
Chrysene	0.0242	0.00500	"	0.0333		72.5	30-120			
Dibenz (a,h) anthracene	0.0229	0.00500	"	0.0333		68.6	30-120			
Fluoranthene	0.0245	0.00500	"	0.0333		73.6	30-120			
Fluorene	0.0229	0.00500	"	0.0333		68.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333		59.0	30-120			
Pyrene	0.0247	0.00500	"	0.0333		74.0	35-142			
1-Methylnaphthalene	0.0233	0.00500	"	0.0333		70.0	35-142			
2-Methylnaphthalene	0.0234	0.00500	"	0.0333		70.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0234		"	0.0333		70.2	40-150			
Surrogate: Fluoranthene-d10	0.0252		"	0.0333		75.6	40-150			

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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 12:20

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BHJ0322 - EPA 5030 Soil MS

##### Matrix Spike (BHJ0322-MS1)

Source: 2409458-04

Prepared & Analyzed: 10/09/24

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.3	31-137				
Anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120				
Benzo (a) anthracene	0.0223	0.00500	"	0.0333	ND	67.0	30-120				
Benzo (a) pyrene	0.0207	0.00500	"	0.0333	ND	62.1	30-120				
Benzo (b) fluoranthene	0.0203	0.00500	"	0.0333	ND	61.0	30-120				
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.6	30-120				
Chrysene	0.0217	0.00500	"	0.0333	ND	65.0	30-120				
Dibenz (a,h) anthracene	0.0209	0.00500	"	0.0333	ND	62.7	30-120				
Fluoranthene	0.0222	0.00500	"	0.0333	ND	66.5	30-120				
Fluorene	0.0208	0.00500	"	0.0333	ND	62.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0265	0.00500	"	0.0333	ND	79.4	30-120				
Pyrene	0.0230	0.00500	"	0.0333	ND	68.9	35-142				
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130				
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0196		"	0.0333		58.7	40-150				
Surrogate: Fluoranthene-d10	0.0228		"	0.0333		68.3	40-150				

##### Matrix Spike Dup (BHJ0322-MSD1)

Source: 2409458-04

Prepared & Analyzed: 10/09/24

Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	64.0	31-137	1.98	30		
Anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120	0.111	30		
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.4	30-120	0.561	30		
Benzo (a) pyrene	0.0206	0.00500	"	0.0333	ND	61.7	30-120	0.609	30		
Benzo (b) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120	0.463	30		
Benzo (k) fluoranthene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	0.749	30		
Chrysene	0.0215	0.00500	"	0.0333	ND	64.5	30-120	0.802	30		
Dibenz (a,h) anthracene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	0.929	30		
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	2.12	30		
Fluorene	0.0203	0.00500	"	0.0333	ND	60.9	30-120	2.38	30		
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333	ND	59.2	30-120	29.2	30		
Pyrene	0.0231	0.00500	"	0.0333	ND	69.4	35-142	0.605	30		
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130	0.128	50		
2-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.5	15-130	3.00	50		
Surrogate: 2-Methylnaphthalene-d10	0.0198		"	0.0333		59.3	40-150				
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.7	40-150				

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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 12:20

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

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

**Batch BHJ0333 - EPA 3050B**

**Blank (BHJ0333-BLK1)**

Prepared & Analyzed: 10/09/24

Boron ND 2.00 mg/L

**LCS (BHJ0333-BS1)**

Prepared & Analyzed: 10/09/24

Boron 4.94 2.00 mg/L 5.00 98.7 80-120

**Duplicate (BHJ0333-DUP1)**

Source: 2410119-01

Prepared & Analyzed: 10/09/24

Boron 4.41 2.00 mg/L 4.25 3.63 20

**Matrix Spike (BHJ0333-MS1)**

Source: 2410119-01

Prepared & Analyzed: 10/09/24

Boron 9.67 2.00 mg/L 5.00 4.25 108 75-125

**Matrix Spike Dup (BHJ0333-MSD1)**

Source: 2410119-01

Prepared & Analyzed: 10/09/24

Boron 10.4 2.00 mg/L 5.00 4.25 123 75-125 7.35 25

**Batch BHJ0751 - EPA 3050B**

**Blank (BHJ0751-BLK1)**

Prepared: 10/18/24 Analyzed: 10/23/24

Boron ND 2.00 mg/L

**LCS (BHJ0751-BS1)**

Prepared: 10/18/24 Analyzed: 10/23/24

Boron 5.15 2.00 mg/L 5.00 103 80-120

**Duplicate (BHJ0751-DUP1)**

Source: 2410119-01RE1

Prepared: 10/18/24 Analyzed: 10/23/24

Boron 2.81 2.00 mg/L 2.70 3.86 20

**Matrix Spike (BHJ0751-MS1)**

Source: 2410119-01RE1

Prepared: 10/18/24 Analyzed: 10/23/24

Boron 6.52 2.00 mg/L 4.99 2.70 76.7 75-125

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Fremont Environmental	Project: Noble - Booth CC 31-17D Tank	
PO Box 1289	Project Number: UWRWE-A2250-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	12/04/24 12:20

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

Summit Scientific

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

Batch BHJ0751 - EPA 3050B

Matrix Spike Dup (BHJ0751-MSD1)		Source: 2410119-01RE1			Prepared: 10/18/24 Analyzed: 10/23/24					
Boron	6.34	2.00	mg/L	4.99	2.70	73.1	75-125	2.82	25	QM-05

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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 12:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHJ0334 - EPA 3050B**

**Blank (BHJ0334-BLK1)**

Prepared & Analyzed: 10/09/24

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

**LCS (BHJ0334-BS1)**

Prepared & Analyzed: 10/09/24

Arsenic	33.9	0.200	mg/kg wet	37.0	91.5	80-120
Barium	34.6	0.400	"	37.0	93.3	80-120
Cadmium	1.68	0.200	"	1.85	90.6	80-120
Copper	34.1	0.400	"	37.0	92.2	80-120
Lead	16.9	0.200	"	18.5	91.4	80-120
Nickel	34.1	0.400	"	37.0	92.0	80-120
Silver	1.71	0.0200	"	1.85	92.2	80-120
Zinc	34.2	0.400	"	37.0	92.3	80-120
Selenium	3.51	0.260	"	3.70	94.8	80-120

**Duplicate (BHJ0334-DUP1)**

Source: 2410100-01

Prepared & Analyzed: 10/09/24

Arsenic	3.89	0.181	mg/kg dry	3.93	1.06	20
Barium	124	0.362	"	125	1.32	20
Cadmium	0.378	0.181	"	0.376	0.481	20
Copper	10.1	0.362	"	10.1	0.0122	20
Lead	8.99	0.181	"	9.09	1.13	20
Nickel	8.23	0.362	"	8.04	2.32	20
Silver	0.0754	0.0181	"	0.0822	8.59	20
Zinc	41.9	0.362	"	41.7	0.557	20
Selenium	ND	0.236	"	ND		20

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

**Reported:**  
12/04/24 12:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHJ0334 - EPA 3050B**

Matrix Spike (BHJ0334-MS1)			Source: 2410100-01		Prepared & Analyzed: 10/09/24					
Arsenic	44.7	0.200	mg/kg dry	48.0	3.93	84.8	75-125			
Barium	161	0.400	"	48.0	125	74.6	75-125			QM-05
Cadmium	2.45	0.200	"	2.40	0.376	86.1	75-125			
Copper	51.0	0.400	"	48.0	10.1	85.2	75-125			
Lead	28.7	0.200	"	24.0	9.09	81.7	75-125			
Nickel	49.7	0.400	"	48.0	8.04	86.8	75-125			
Silver	2.11	0.0200	"	2.40	0.0822	84.3	75-125			
Zinc	84.6	0.400	"	48.0	41.7	89.3	75-125			
Selenium	3.48	0.260	"	4.80	ND	72.5	75-125			QM-05

Matrix Spike Dup (BHJ0334-MSD1)			Source: 2410100-01		Prepared & Analyzed: 10/09/24					
Arsenic	42.1	0.200	mg/kg dry	46.9	3.93	81.3	75-125	5.94	25	
Barium	154	0.400	"	46.9	125	60.6	75-125	4.71	25	QM-05
Cadmium	2.33	0.200	"	2.35	0.376	83.5	75-125	4.64	25	
Copper	49.0	0.400	"	46.9	10.1	82.9	75-125	4.09	25	
Lead	27.5	0.200	"	23.5	9.09	78.6	75-125	4.26	25	
Nickel	47.3	0.400	"	46.9	8.04	83.7	75-125	4.97	25	
Silver	2.00	0.0200	"	2.35	0.0822	81.8	75-125	5.17	25	
Zinc	82.2	0.400	"	46.9	41.7	86.3	75-125	2.87	25	
Selenium	3.30	0.260	"	4.69	ND	70.4	75-125	5.28	25	QM-05

**Batch BHK0360 - EPA 3050B**

Blank (BHK0360-BLK1)			Prepared: 11/07/24 Analyzed: 11/09/24							
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

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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 12:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHK0360 - EPA 3050B**

**LCS (BHK0360-BS1)**

Prepared: 11/07/24 Analyzed: 11/09/24

Arsenic	36.7	0.200	mg/kg wet	38.5		95.4	80-120			
Barium	37.5	0.400	"	38.5		97.4	80-120			
Cadmium	1.84	0.200	"	1.92		95.5	80-120			
Copper	41.9	0.400	"	38.5		109	80-120			
Lead	17.7	0.200	"	19.2		92.0	80-120			
Nickel	41.4	0.400	"	38.5		108	80-120			
Silver	1.86	0.0200	"	1.92		96.6	80-120			
Zinc	41.1	0.400	"	38.5		107	80-120			
Selenium	3.77	0.260	"	3.85		98.1	80-120			

**Duplicate (BHK0360-DUP1)**

Source: 2410119-04RE1

Prepared: 11/07/24 Analyzed: 11/09/24

Arsenic	3.54	0.200	mg/kg dry		3.55			0.310	20	
Barium	79.4	0.400	"		78.1			1.63	20	
Cadmium	0.218	0.200	"		0.224			2.43	20	
Copper	4.80	0.400	"		4.78			0.445	20	
Lead	6.91	0.200	"		6.89			0.232	20	
Nickel	5.31	0.400	"		5.20			2.19	20	
Silver	0.0256	0.0200	"		0.0263			2.53	20	
Zinc	19.1	0.400	"		18.9			0.936	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHK0360-MS1)**

Source: 2410119-04RE1

Prepared: 11/07/24 Analyzed: 11/09/24

Arsenic	42.9	0.200	mg/kg dry	43.8	3.55	89.7	75-125			
Barium	119	0.400	"	43.8	78.1	93.5	75-125			
Cadmium	2.34	0.200	"	2.19	0.224	96.4	75-125			
Copper	30.6	0.400	"	43.8	4.78	58.9	75-125			QM-05
Lead	27.1	0.200	"	21.9	6.89	92.1	75-125			
Nickel	31.1	0.400	"	43.8	5.20	59.1	75-125			QM-05
Silver	2.10	0.0200	"	2.19	0.0263	94.5	75-125			
Zinc	46.1	0.400	"	43.8	18.9	62.1	75-125			QM-05
Selenium	3.46	0.260	"	4.38	ND	78.9	75-125			

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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 12:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHK0360 - EPA 3050B**

Matrix Spike Dup (BHK0360-MSD1)		Source: 2410119-04RE1			Prepared: 11/07/24 Analyzed: 11/09/24						
Arsenic	42.3	0.200	mg/kg dry	42.8	3.55	90.6	75-125	1.23	25		
Barium	132	0.400	"	42.8	78.1	126	75-125	10.2	25		QM-05
Cadmium	2.31	0.200	"	2.14	0.224	97.7	75-125	1.03	25		
Copper	29.8	0.400	"	42.8	4.78	58.4	75-125	2.79	25		QM-05
Lead	26.9	0.200	"	21.4	6.89	93.4	75-125	0.827	25		
Nickel	30.2	0.400	"	42.8	5.20	58.4	75-125	2.95	25		QM-05
Silver	2.06	0.0200	"	2.14	0.0263	95.1	75-125	1.70	25		
Zinc	45.0	0.400	"	42.8	18.9	61.1	75-125	2.39	25		QM-05
Selenium	3.30	0.260	"	4.28	ND	77.2	75-125	4.52	25		

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

**Reported:**  
12/04/24 12:20

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHJ0324 - 3060A Mod**

**Blank (BHJ0324-BLK1)**

Prepared & Analyzed: 10/09/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHJ0324-BS1)**

Prepared & Analyzed: 10/09/24

Chromium, Hexavalent 26.6 0.30 mg/kg wet 25.0 106 80-120

**Duplicate (BHJ0324-DUP1)**

**Source: 2410115-01**

Prepared & Analyzed: 10/09/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHJ0324-MS1)**

**Source: 2410115-01**

Prepared & Analyzed: 10/09/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 26.5 ND 105 75-125

**Matrix Spike Dup (BHJ0324-MSD1)**

**Source: 2410115-01**

Prepared & Analyzed: 10/09/24

Chromium, Hexavalent 27.2 0.30 mg/kg dry 26.5 ND 103 75-125 2.12 20

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 12:20

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

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

**Batch BHJ0308 - General Preparation**

**Blank (BHJ0308-BLK1)**

Prepared: 10/08/24 Analyzed: 10/09/24

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

**LCS (BHJ0308-BS1)**

Prepared: 10/08/24 Analyzed: 10/09/24

Calcium	5.53	0.0500	mg/L wet	5.00	111	70-130
Magnesium	5.07	0.0500	"	5.00	101	70-130
Sodium	5.10	0.0500	"	5.00	102	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Booth CC 31-17D Tank	
PO Box 1289	Project Number: UWRWE-A2250-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	12/04/24 12:20

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

Summit Scientific

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

Batch BHJ0321 - General Preparation

Duplicate (BHJ0321-DUP1)	Source: 2410119-01			Prepared & Analyzed: 10/09/24						
% Solids	90.3		%		90.1			0.236	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 12:20

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

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

**Batch BHJ0309 - General Preparation**

**Blank (BHJ0309-BLK1)**

Prepared: 10/08/24 Analyzed: 10/09/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHJ0309-BS1)**

Prepared: 10/08/24 Analyzed: 10/09/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BHJ0309-DUP1)**

**Source: 2410103-01**

Prepared: 10/08/24 Analyzed: 10/09/24

Specific Conductance (EC) 0.898 0.0100 mmhos/cm 0.938 4.36 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 12:20

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

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

**Batch BHJ0310 - General Preparation**

**LCS (BHJ0310-BS1)**

Prepared: 10/08/24 Analyzed: 10/09/24

pH	9.19		pH Units	9.18	100	95-105
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**Duplicate (BHJ0310-DUP1)**

**Source: 2410103-01**

Prepared: 10/08/24 Analyzed: 10/09/24

pH	8.42		pH Units	8.45	0.356	20
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**Batch BHJ1165 - General Preparation**

**LCS (BHJ1165-BS1)**

Prepared & Analyzed: 10/28/24

pH	9.13		pH Units	9.18	99.5	95-105
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**Duplicate (BHJ1165-DUP1)**

**Source: 2410119-01RE1**

Prepared & Analyzed: 10/28/24

pH	10.4		pH Units	10.5	0.383	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 12:20

### Notes and Definitions

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