

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 01, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Farr T4N-R64W-S8 L01

Work Order #2406373

Enclosed are the results of analyses for samples received by Summit Scientific on 06/25/24 16:42. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@8.0'	2406373-01	Soil	06/25/24 00:00	06/25/24 16:42

### Case Narrative

Rerun analyses were performed by client request on 7/24/24.  
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 7/2/24 at 10:48 MT.

# SUMMIT SCIENTIFIC

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

Lab ID	Page <u>1</u> of <u>1</u>
<b>2406373</b>	

Client: <b>Fremont Env</b>	Send Data To:	Send Invoice To:
Address:	Project Manager: <b>Paul Henehan</b>	Company: <b>Noble</b>
City/State/Zip:	E-Mail: <b>Paulh@fremontenv.com</b>	Project Name/Location:
Phone:	<b>jeff@fremontenv.com Ethan@fremontenv.com</b>	AFE#:
Sampler Name: <b>J6</b>	Project Name: <b>Farr TUN-R64W-S18 L01</b>	PO/Billing Codes:
	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)	ECIPH, SAG, Boron	Metals (915)		
1	Noise 0'	6/25/24		2			X			X				X	X	X	X	X	X	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>[Signature]</i> Date/Time: <b>6/25/24</b>	Received by: <i>[Signature]</i> Date/Time: <b>6-25-24</b>	TAT Business Days	Field DO	Notes:
		Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	1 Day <input type="checkbox"/>	Field ORP	
		2 Days <input type="checkbox"/>	Field pH	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	3 Days <input type="checkbox"/>	Field Temp.	
Temperature Upon Receipt: <u>22.5</u>	Corrected Temperature _____	IR gun #: <u>2</u>	Field Turb.	HNO3 lot #: _____

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2406373

Client: Fremont

Client Project ID: FARR T4N-R14W-S18 L01

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C) 27.5 Thermometer #

	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" 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 <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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample time
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no relinquish time
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.

AS

Custodian Printed Name

6/25/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

**N01@8.0'**  
**2406373-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHF0832	06/25/24	06/25/24	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: **06/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0562	140 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	97.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	104 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHF0833	06/25/24	06/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.36	58.9 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

**N01@8.0'**  
**2406373-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHF0844	06/26/24	06/26/24	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: **06/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	42.0 %	40-150		"	"	"	"	

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

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0865	06/26/24	06/28/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/25/24 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 - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

**N01@8.0'**  
**2406373-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	121	0.400	mg/kg dry	1	BHF0848	06/26/24	06/27/24	EPA 6020B	
Cadmium	0.285	0.200	"	"	"	"	"	"	
Copper	7.98	0.400	"	"	"	"	"	"	
Lead	7.12	0.200	"	"	"	"	"	"	
Nickel	9.29	0.400	"	"	"	"	"	"	
Silver	0.0251	0.0200	"	"	"	"	"	"	
Zinc	17.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0853	06/26/24	06/26/24	EPA 7196A	

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

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.2	0.0500	mg/L dry	1	BHF0801	06/25/24	06/27/24	EPA 6020B	
Magnesium	19.5	0.0500	"	"	"	"	"	"	
Sodium	64.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.16	0.00100	units	1	BHF0946	06/28/24	06/28/24	Calculation	

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

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3		%	1	BHF0842	06/26/24	06/27/24	Calculation	

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 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

**N01@8.0'**  
**2406373-01 (Soil)**

**Summit Scientific**

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

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

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.484</b>	0.0100	mmhos/cm	1	BHF0811	06/25/24	06/26/24	EPA 120.1	

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

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.13</b>		pH Units	1	BHF0810	06/25/24	06/26/24	EPA 9045D	

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

**N01@8.0'**  
**2406373-01RE1 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **06/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.69	0.180	mg/kg dry	1	BHG0785	07/26/24	08/01/24	EPA 6020B	

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Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BHF0832 - EPA 5030 Soil MS

##### Blank (BHF0832-BLK1)

Prepared: 06/25/24 Analyzed: 06/26/24

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	0.0488		"	0.0400		122	50-150			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400		106	50-150			

##### LCS (BHF0832-BS1)

Prepared: 06/25/24 Analyzed: 06/26/24

Benzene	0.101	0.0020	mg/kg	0.100		101	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.103	0.0050	"	0.100		103	70-130			
m,p-Xylene	0.200	0.010	"	0.200		99.9	70-130			
o-Xylene	0.102	0.0050	"	0.100		102	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
Naphthalene	0.102	0.0038	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0499		"	0.0400		125	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.5	50-150			

##### Matrix Spike (BHF0832-MS1)

Source: 2406355-03

Prepared: 06/25/24 Analyzed: 06/26/24

Benzene	0.0917	0.0020	mg/kg	0.100	ND	91.7	70-130			
Toluene	0.0963	0.0050	"	0.100	ND	96.3	70-130			
Ethylbenzene	0.0934	0.0050	"	0.100	ND	93.4	70-130			
m,p-Xylene	0.185	0.010	"	0.200	ND	92.3	70-130			
o-Xylene	0.0925	0.0050	"	0.100	ND	92.5	70-130			
1,2,4-Trimethylbenzene	0.0866	0.0050	"	0.100	ND	86.6	70-130			
1,3,5-Trimethylbenzene	0.0881	0.0050	"	0.100	ND	88.1	70-130			
Naphthalene	0.0840	0.0038	"	0.100	ND	84.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0515		"	0.0400		129	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

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Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BHF0832 - EPA 5030 Soil MS**

Matrix Spike Dup (BHF0832-MSD1)	Source: 2406355-03			Prepared: 06/25/24 Analyzed: 06/26/24						
Benzene	0.0949	0.0020	mg/kg	0.100	ND	94.9	70-130	3.41	30	
Toluene	0.0979	0.0050	"	0.100	ND	97.9	70-130	1.64	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	10.2	30	
m,p-Xylene	0.204	0.010	"	0.200	ND	102	70-130	10.2	30	
o-Xylene	0.0993	0.0050	"	0.100	ND	99.3	70-130	7.10	30	
1,2,4-Trimethylbenzene	0.0945	0.0050	"	0.100	ND	94.5	70-130	8.72	30	
1,3,5-Trimethylbenzene	0.0969	0.0050	"	0.100	ND	96.9	70-130	9.47	30	
Naphthalene	0.0870	0.0038	"	0.100	ND	87.0	70-130	3.54	30	
Surrogate: 1,2-Dichloroethane-d4	0.0499		"	0.0400		125	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	50-150			

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Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

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

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

**Batch BHF0833 - EPA 3550A**

**Blank (BHF0833-BLK1)**

Prepared: 06/25/24 Analyzed: 06/26/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.3	30-150				

**LCS (BHF0833-BS1)**

Prepared: 06/25/24 Analyzed: 06/26/24

C10-C28 (DRO)	446	50	mg/kg	500		89.2	70-130				
Surrogate: <i>o</i> -Terphenyl	12.0		"	12.5		96.4	30-150				

**Matrix Spike (BHF0833-MS1)**

Source: 2406355-03

Prepared: 06/25/24 Analyzed: 06/26/24

C10-C28 (DRO)	393	50	mg/kg	500	24.5	73.7	70-130				
Surrogate: <i>o</i> -Terphenyl	6.74		"	12.5		53.9	30-150				

**Matrix Spike Dup (BHF0833-MSD1)**

Source: 2406355-03

Prepared: 06/25/24 Analyzed: 06/26/24

C10-C28 (DRO)	408	50	mg/kg	500	24.5	76.8	70-130	3.86	20		
Surrogate: <i>o</i> -Terphenyl	7.12		"	12.5		57.0	30-150				

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Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

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

**Summit Scientific**

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

**Batch BHF0844 - EPA 5030 Soil MS**

**Blank (BHF0844-BLK1)**

Prepared & Analyzed: 06/26/24

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>0.0205</i>		<i>"</i>	<i>0.0333</i>		<i>61.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0184</i>		<i>"</i>	<i>0.0333</i>		<i>55.1</i>	<i>40-150</i>			

**LCS (BHF0844-BS1)**

Prepared & Analyzed: 06/26/24

Acenaphthene	0.0201	0.00500	mg/kg	0.0333		60.3	31-137			
Anthracene	0.0204	0.00500	"	0.0333		61.3	30-120			
Benzo (a) anthracene	0.0230	0.00500	"	0.0333		69.1	30-120			
Benzo (a) pyrene	0.0209	0.00500	"	0.0333		62.8	30-120			
Benzo (b) fluoranthene	0.0213	0.00500	"	0.0333		63.8	30-120			
Benzo (k) fluoranthene	0.0220	0.00500	"	0.0333		66.1	30-120			
Chrysene	0.0226	0.00500	"	0.0333		67.8	30-120			
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333		59.4	30-120			
Fluoranthene	0.0200	0.00500	"	0.0333		60.1	30-120			
Fluorene	0.0193	0.00500	"	0.0333		58.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0187	0.00500	"	0.0333		56.2	30-120			
Pyrene	0.0228	0.00500	"	0.0333		68.3	35-142			
1-Methylnaphthalene	0.0191	0.00500	"	0.0333		57.4	35-142			
2-Methylnaphthalene	0.0172	0.00500	"	0.0333		51.7	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0201</i>		<i>"</i>	<i>0.0333</i>		<i>60.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0213</i>		<i>"</i>	<i>0.0333</i>		<i>63.9</i>	<i>40-150</i>			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

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

**Summit Scientific**

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

**Batch BHF0844 - EPA 5030 Soil MS**

<b>Matrix Spike (BHF0844-MS1)</b>	<b>Source: 2406372-01</b>			<b>Prepared &amp; Analyzed: 06/26/24</b>							
Acenaphthene	0.0157	0.00500	mg/kg	0.0333	ND	47.1	31-137				
Anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120				
Benzo (a) anthracene	0.0193	0.00500	"	0.0333	ND	58.0	30-120				
Benzo (a) pyrene	0.0172	0.00500	"	0.0333	ND	51.5	30-120				
Benzo (b) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.0	30-120				
Benzo (k) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.1	30-120				
Chrysene	0.0195	0.00500	"	0.0333	ND	58.4	30-120				
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120				
Fluoranthene	0.0173	0.00500	"	0.0333	ND	51.8	30-120				
Fluorene	0.0172	0.00500	"	0.0333	ND	51.7	30-120				
Indeno (1,2,3-cd) pyrene	0.0163	0.00500	"	0.0333	ND	49.0	30-120				
Pyrene	0.0200	0.00500	"	0.0333	ND	60.1	35-142				
1-Methylnaphthalene	0.0141	0.00500	"	0.0333	ND	42.3	15-130				
2-Methylnaphthalene	0.0129	0.00500	"	0.0333	ND	38.7	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0138</i>		<i>"</i>	<i>0.0333</i>		<i>41.4</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0166</i>		<i>"</i>	<i>0.0333</i>		<i>49.8</i>	<i>40-150</i>				

<b>Matrix Spike Dup (BHF0844-MSD1)</b>	<b>Source: 2406372-01</b>			<b>Prepared &amp; Analyzed: 06/26/24</b>							
Acenaphthene	0.0165	0.00500	mg/kg	0.0333	ND	49.4	31-137	4.65	30		
Anthracene	0.0163	0.00500	"	0.0333	ND	48.9	30-120	1.43	30		
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	2.76	30		
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	2.50	30		
Benzo (b) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	2.34	30		
Benzo (k) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.3	30-120	0.366	30		
Chrysene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	2.89	30		
Dibenz (a,h) anthracene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	7.09	30		
Fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	0.896	30		
Fluorene	0.0175	0.00500	"	0.0333	ND	52.4	30-120	1.44	30		
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.4	30-120	3.29	30		
Pyrene	0.0200	0.00500	"	0.0333	ND	59.9	35-142	0.398	30		
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	54.8	15-130	25.8	50		
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.4	15-130	30.2	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0170</i>		<i>"</i>	<i>0.0333</i>		<i>50.9</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0171</i>		<i>"</i>	<i>0.0333</i>		<i>51.4</i>	<i>40-150</i>				

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

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

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

**Batch BHF0865 - EPA 3050B**

**Blank (BHF0865-BLK1)**

Prepared: 06/26/24 Analyzed: 06/28/24

Boron ND 2.00 mg/L

**LCS (BHF0865-BS1)**

Prepared: 06/26/24 Analyzed: 06/28/24

Boron 5.47 2.00 mg/L 5.00 109 80-120

**Duplicate (BHF0865-DUP1)**

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/28/24

Boron 0.259 2.00 mg/L 0.318 20.6 20 QR-02

**Matrix Spike (BHF0865-MS1)**

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/28/24

Boron 5.44 2.00 mg/L 5.01 0.318 102 75-125

**Matrix Spike Dup (BHF0865-MSD1)**

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/28/24

Boron 5.71 2.00 mg/L 5.01 0.318 108 75-125 4.76 25

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

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

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

**Batch BHF0848 - EPA 3050B**

**Blank (BHF0848-BLK1)**

Prepared: 06/26/24 Analyzed: 06/27/24

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 (BHF0848-BS1)**

Prepared: 06/26/24 Analyzed: 06/27/24

Arsenic	36.5	0.200	mg/kg wet	40.0	91.3	80-120
Barium	38.6	0.400	"	40.0	96.5	80-120
Cadmium	1.94	0.200	"	2.00	96.9	80-120
Copper	37.9	0.400	"	40.0	94.7	80-120
Lead	19.4	0.200	"	20.0	97.0	80-120
Nickel	37.5	0.400	"	40.0	93.8	80-120
Silver	1.93	0.0200	"	2.00	96.7	80-120
Zinc	41.3	0.400	"	40.0	103	80-120
Selenium	4.43	0.260	"	4.00	111	80-120

**Duplicate (BHF0848-DUP1)**

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/27/24

Arsenic	6.25	0.200	mg/kg dry	6.24	0.152	20
Barium	140	0.400	"	140	0.392	20
Cadmium	0.550	0.200	"	0.546	0.787	20
Copper	18.3	0.400	"	18.2	0.581	20
Lead	53.1	0.200	"	53.3	0.350	20
Nickel	18.5	0.400	"	18.5	0.203	20
Silver	0.105	0.0200	"	0.107	1.63	20
Zinc	28.5	0.400	"	28.2	1.05	20
Selenium	0.289	0.260	"	0.275	5.06	20

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

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

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

**Batch BHF0848 - EPA 3050B**

**Matrix Spike (BHF0848-MS1)**

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/27/24

Arsenic	39.5	0.200	mg/kg dry	43.5	6.24	76.4	75-125			
Barium	117	0.400	"	43.5	140	NR	75-125			QM-07
Cadmium	2.30	0.200	"	2.18	0.546	80.6	75-125			
Copper	47.3	0.400	"	43.5	18.2	66.8	75-125			QM-07
Lead	36.9	0.200	"	21.8	53.3	NR	75-125			QM-07
Nickel	45.9	0.400	"	43.5	18.5	62.9	75-125			QM-07
Silver	2.03	0.0200	"	2.18	0.107	88.2	75-125			
Zinc	47.3	0.400	"	43.5	28.2	43.9	75-125			QM-07
Selenium	4.30	0.260	"	4.35	0.275	92.4	75-125			

**Matrix Spike Dup (BHF0848-MSD1)**

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/27/24

Arsenic	40.6	0.200	mg/kg dry	43.5	6.24	79.1	75-125	2.86	25	
Barium	120	0.400	"	43.5	140	NR	75-125	2.56	25	QM-07
Cadmium	2.36	0.200	"	2.18	0.546	83.6	75-125	2.80	25	
Copper	48.7	0.400	"	43.5	18.2	70.0	75-125	2.89	25	QM-07
Lead	37.9	0.200	"	21.8	53.3	NR	75-125	2.59	25	QM-07
Nickel	47.3	0.400	"	43.5	18.5	66.3	75-125	3.12	25	QM-07
Silver	2.07	0.0200	"	2.18	0.107	90.3	75-125	2.29	25	
Zinc	47.3	0.400	"	43.5	28.2	44.0	75-125	0.0782	25	QM-07
Selenium	4.61	0.260	"	4.35	0.275	99.6	75-125	7.04	25	

**Batch BHG0785 - EPA 3050B**

**Blank (BHG0785-BLK1)**

Prepared: 07/26/24 Analyzed: 08/01/24

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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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

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

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

**Batch BHG0785 - EPA 3050B**

**LCS (BHG0785-BS1)**

Prepared: 07/26/24 Analyzed: 08/01/24

Arsenic	40.0	0.200	mg/kg wet	39.1		102	80-120			
Barium	55.7	0.400	"	39.1		143	80-120			QM-07
Cadmium	1.91	0.200	"	1.95		97.7	80-120			
Copper	40.4	0.400	"	39.1		103	80-120			
Lead	19.2	0.200	"	19.5		98.3	80-120			
Nickel	40.5	0.400	"	39.1		104	80-120			
Silver	1.93	0.0200	"	1.95		98.9	80-120			
Zinc	40.3	0.400	"	39.1		103	80-120			
Selenium	3.76	0.260	"	3.91		96.3	80-120			

**Duplicate (BHG0785-DUP1)**

Source: 2406373-01RE1

Prepared: 07/26/24 Analyzed: 08/01/24

Arsenic	2.79	0.200	mg/kg dry		2.69			3.36	20	
Barium	119	0.400	"		125			4.94	20	
Cadmium	0.294	0.200	"		0.296			0.732	20	
Copper	5.56	0.400	"		5.28			5.02	20	
Lead	6.61	0.200	"		7.55			13.3	20	
Nickel	6.07	0.400	"		5.86			3.58	20	
Silver	0.0268	0.0200	"		0.0284			5.84	20	
Zinc	19.8	0.400	"		18.8			5.24	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHG0785-MS1)**

Source: 2406373-01RE1

Prepared: 07/26/24 Analyzed: 08/01/24

Arsenic	28.4	0.200	mg/kg dry	42.4	2.69	60.5	75-125			QM-05
Barium	148	0.400	"	42.4	125	55.5	75-125			QM-07
Cadmium	2.40	0.200	"	2.12	0.296	99.2	75-125			
Copper	31.5	0.400	"	42.4	5.28	61.7	75-125			QM-05
Lead	25.0	0.200	"	21.2	7.55	82.0	75-125			
Nickel	32.4	0.400	"	42.4	5.86	62.6	75-125			QM-05
Silver	2.08	0.0200	"	2.12	0.0284	96.8	75-125			
Zinc	45.1	0.400	"	42.4	18.8	62.0	75-125			QM-05
Selenium	4.08	0.260	"	4.24	ND	96.0	75-125			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

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

**Summit Scientific**

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

**Batch BHG0785 - EPA 3050B**

**Matrix Spike Dup (BHG0785-MSD1)**

Source: 2406373-01RE1 Prepared: 07/26/24 Analyzed: 08/01/24

Analyte	Result	Limit	Units	Spike Level	Source Result	Source %REC	Source Limits	Source RPD	Limit	Notes
Arsenic	31.6	0.200	mg/kg dry	45.1	2.69	64.0	75-125	10.7	25	QM-05
Barium	153	0.400	"	45.1	125	61.9	75-125	2.91	25	QM-07
Cadmium	2.55	0.200	"	2.26	0.296	99.8	75-125	5.98	25	
Copper	34.1	0.400	"	45.1	5.28	63.9	75-125	8.15	25	QM-05
Lead	28.0	0.200	"	22.6	7.55	90.5	75-125	11.4	25	
Nickel	35.2	0.400	"	45.1	5.86	65.1	75-125	8.17	25	QM-05
Silver	2.24	0.0200	"	2.26	0.0284	98.3	75-125	7.50	25	
Zinc	48.3	0.400	"	45.1	18.8	65.4	75-125	6.86	25	QM-05
Selenium	4.49	0.260	"	4.51	ND	99.5	75-125	9.65	25	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

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

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

**Batch BHF0853 - 3060A Mod**

**Blank (BHF0853-BLK1)**

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BHF0853-BS1)**

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent      25.2      0.30 mg/kg wet      25.0      101      80-120

**Duplicate (BHF0853-DUP1)**

**Source: 2406319-01**

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BHF0853-MS1)**

**Source: 2406319-01**

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent      28.8      0.30 mg/kg dry      29.0      ND      99.4      75-125

**Matrix Spike Dup (BHF0853-MSD1)**

**Source: 2406319-01**

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent      28.2      0.30 mg/kg dry      29.0      ND      97.4      75-125      2.03      20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

**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 BHF0801 - General Preparation**

**Blank (BHF0801-BLK1)**

Prepared: 06/25/24 Analyzed: 06/27/24

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

**LCS (BHF0801-BS1)**

Prepared: 06/25/24 Analyzed: 06/27/24

Calcium	5.57	0.0500	mg/L wet	5.00		111	70-130			
Magnesium	4.89	0.0500	"	5.00		97.8	70-130			
Sodium	4.43	0.0500	"	5.00		88.6	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

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

**Summit Scientific**

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

**Batch BHF0842 - General Preparation**

Duplicate (BHF0842-DUP1)	Source: 2406372-01	Prepared: 06/26/24	Analyzed: 06/27/24
% Solids	91.7	%	90.5
			1.34
			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 - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

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

**Summit Scientific**

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

**Batch BHF0811 - General Preparation**

**Blank (BHF0811-BLK1)**

Prepared: 06/25/24 Analyzed: 06/26/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHF0811-BS1)**

Prepared: 06/25/24 Analyzed: 06/26/24

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

**Duplicate (BHF0811-DUP1)**

Source: 2406301-01

Prepared: 06/25/24 Analyzed: 06/26/24

Specific Conductance (EC) 0.0520 0.0100 mmhos/cm 0.0519 0.154 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/01/24 13:51

**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 BHF0810 - General Preparation**

**LCS (BHF0810-BS1)**

Prepared: 06/25/24 Analyzed: 06/26/24

pH	9.15	pH Units	9.18	99.7	95-105
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**Duplicate (BHF0810-DUP1)**

Source: 2406301-01

Prepared: 06/25/24 Analyzed: 06/26/24

pH	7.04	pH Units	7.14	1.41	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/01/24 13:51

### Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference