

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 03, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Loustalet -64N64W 30NESE

Work Order #2408239

Enclosed are the results of analyses for samples received by Summit Scientific on 08/21/24 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01@5.5' (SB)	2408239-01	Soil	08/21/24 00:00	08/21/24 16:10
SEP02@5.5' (SB)	2408239-02	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (15.0')	2408239-03	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (20.0')	2408239-04	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (22.0')	2408239-05	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (24.0')	2408239-06	Soil	08/21/24 00:00	08/21/24 16:10
MW-1 (14.0')	2408239-07	Soil	08/21/24 00:00	08/21/24 16:10
MW-1 (18.0')	2408239-08	Soil	08/21/24 00:00	08/21/24 16:10
SB-3 (1.0')	2408239-09	Soil	08/21/24 00:00	08/21/24 16:10
SB-3 (20.0')	2408239-10	Soil	08/21/24 00:00	08/21/24 16:10
SB-4 (15.0')	2408239-11	Soil	08/21/24 00:00	08/21/24 16:10
SB-4 (18.0')	2408239-12	Soil	08/21/24 00:00	08/21/24 16:10
SB-5 (17.0')	2408239-13	Soil	08/21/24 00:00	08/21/24 16:10
SB-5 (20.0')	2408239-14	Soil	08/21/24 00:00	08/21/24 16:10
SB-6 (16.0')	2408239-15	Soil	08/21/24 00:00	08/21/24 16:10
SB-6 (20.0')	2408239-16	Soil	08/21/24 00:00	08/21/24 16:10
SB-7 (16.0')	2408239-17	Soil	08/21/24 00:00	08/21/24 16:10
SB-7 (19.0')	2408239-18	Soil	08/21/24 00:00	08/21/24 16:10
SB-8 (15.0')	2408239-19	Soil	08/21/24 00:00	08/21/24 16:10
SB-8 (19.0')	2408239-20	Soil	08/21/24 00:00	08/21/24 16:10
SB-9 (16.0')	2408239-21	Soil	08/21/24 00:00	08/21/24 16:10
SB-9 (18.0')	2408239-22	Soil	08/21/24 00:00	08/21/24 16:10
SB-10 (16.0')	2408239-23	Soil	08/21/24 00:00	08/21/24 16:10
SB-10 (20.0')	2408239-24	Soil	08/21/24 00:00	08/21/24 16:10
MW-1	2408239-25	Water	08/21/24 00:00	08/21/24 16:10

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

---

Summit Scientific

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A handwritten signature in black ink, appearing to read 'Matthew Bessin'.

# SUMMIT SCIENTIFIC

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

Lab ID

Page 1 of 2

2408239.1

## Send Data To:

## Send Invoice To:

Client: Fremont Env

Project Manager: Paul Henahan

Company: Noble

Address:

E-Mail: Paulh@fremontenv.com

Project Name/Location:

City/State/Zip:

jeff@fremontenv.com Ethanh@fremontenv.com

AFE#:

Phone:

Project Name: Loustalet-64N64U 30NESE

PO/Billing Codes:

Sampler Name: JG

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)	DR0,OR0,6R0	PAHs (915)	EC-PH, S, ARs, Boron	Metals (915)	PH Only	TDS, Cl, Sulfides
1	SEP0125.5' (SB)	8/21/24		1			X			X									X	
2	SEP0225.5' (SB)			1			X			X									X	
3	SB-1 (15.0')			1									X	X	X	X	X	X		
4	SB-2 (20.0')																			
5	SB-1 (22.0')																			
6	SB-1 (24.0')																			
7	MW-1 (14.0')																			
8	MW-1 (18.0')																			
9	SB-3 (1.0')																			
10	SB-2 (20.0')																			
11	SB-4 (15.0')																			
12	SB-4 (18.0')																			
13	SB-5 (17.0')																			
14	SB-5 (20.0')																			
15	SB-6 (16.0')																			

Relinquished by:

Date/Time:

Received by:

Date/Time:

TAT Business Days

Field DO

Notes:

Relinquished by:

Date/Time:

Received by:

Date/Time:

Same Day

Field EC

1 Day

Field ORP

2 Days

Field pH

3 Days

Field Temp.

Standard

Field Turb.

Temperature Upon Receipt: 65

Corrected Temperature

IR gun #: 2

HNO3 lot #:

# SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2408239.2	

Send Data To:		Send Invoice To:	
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Henchen</u>	Company: <u>Noble</u>	
Address:	E-Mail: <u>Paulh@Fremontenv.com</u>	Project Name/Location:	
City/State/Zip:	<u>jeff@Fremontenv.com Ethumb@Fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>Loustalet-64NG4U 3ONESE</u>	PO/Billing Codes:	
Sampler Name: <u>JG</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,ORO,GRO	PAHs (915)	EC,PH,SAR <sub>Boron</sub>	Metals (915)	PH Only	TDS,Cl, Sulfate	
1	SB-6 (20.0')	8/21/24		2			X			X			X	X	X	X	X	X			
2	SB-7 (16.0')	↓											—	—	—	—	—	—			
3	SB-7 (19.0')												—	—	—	—	—	—			
4	SB-8 (15.0')												—	—	—	—	—	—			
5	SB-8 (19.0')												—	—	—	—	—	—			
6	SB-9 (16.0')												—	—	—	—	—	—			
7	SB-9 (18.0')												—	—	—	—	—	—			
8	SB-10 (16.0')												—	—	—	—	—	—			
9	SB-10 (20.0')												—	—	—	—	—	—			
10	MW-2	↓		4	X		X		X				✓	✓	X	X	X	X		X	
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>[Signature]</u> Date/Time: <u>8/21/24</u>	Received by: <u>[Signature]</u> Date/Time: <u>8/21/24 16:10</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Received by:	Same Day	Field EC	
		1 Day	Field ORP	
		2 Days	Field pH	
		3 Days	Field Temp.	
Relinquished by:	Received by:	Standard	Field Turb.	
Temperature Upon Receipt: <u>6.5</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2408239Client: FiremontClient Project ID: Loustalet - 64N64W 30NESEShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: \_\_\_\_\_

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

6.5

Thermometer #

2

	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"/>	on ice
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <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 times
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? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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

AB  
Custodian Printed Name

8/21/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SEP01@5.5' (SB)**

**2408239-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.64			pH Units	1	BHH0624	08/22/24	08/22/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SEP02@5.5' (SB)**  
**2408239-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>7.22</b>			pH Units	1	BHH0624	08/22/24	08/22/24	EPA 9045D	

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PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (15.0')**  
**2408239-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/23/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0447	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (15.0')**  
**2408239-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0148	44.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.0 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (15.0')**  
**2408239-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.09	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	28.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.15	0.400	"	"	"	"	"	"
Lead	2.32	0.200	"	"	"	"	"	"
Nickel	2.44	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.14	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.6	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	34.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.18	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (15.0')**  
**2408239-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.2		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.202	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.06		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (20.0')**  
**2408239-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.20	mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.42</b>	0.0050	"	1	"	"	08/23/24	"	
Xylenes (total)	ND	1.0	"	100	"	"	08/26/24	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.069</b>	0.0038	"	1	"	"	08/23/24	"	
Gasoline Range Hydrocarbons	ND	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.221	553 %	50-150		"	"	08/23/24	"	S-02
Surrogate: Toluene-d8	0.321	802 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.392	980 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>320</b>	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>54</b>	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.94	71.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (20.0')  
2408239-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0219</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0261</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0408</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00580	17.4 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0138	41.3 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (20.0')**  
**2408239-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.19	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	35.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.81	0.400	"	"	"	"	"	"
Lead	3.00	0.200	"	"	"	"	"	"
Nickel	3.97	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.3	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	5.94	0.0500	"	"	"	"	"	"	
Sodium	25.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.15	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (20.0')**  
**2408239-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.419	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (22.0')**  
**2408239-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.29	0.0020	mg/kg	1	BHH0654	08/22/24	08/23/24	EPA 8260B	
Toluene	0.15	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.23	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.6	0.010	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	0.46	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.29	0.0050	"	"	"	"	"	"	
Naphthalene	0.11	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	79	0.50	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0476	119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0753	188 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0581	145 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.18	73.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (22.0')**  
**2408239-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00672</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0198</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0316</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.3 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
09/03/24 08:26

**SB-1 (22.0')**  
**2408239-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.72	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	46.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	15.4	0.400	"	"	"	"	"	"
Lead	10.2	0.200	"	"	"	"	"	"
Nickel	4.31	0.400	"	"	"	"	"	"
Silver	0.0329	0.0200	"	"	"	"	"	"
Zinc	12.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	5.89	0.0500	"	"	"	"	"	"	
Sodium	86.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.68	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (22.0')  
2408239-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.1		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.571	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (24.0')**  
**2408239-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.18	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.12	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.057	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.43	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.066	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.037	0.0050	"	"	"	"	"	"	
Naphthalene	0.032	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	7.7	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0455	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.44	51.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (24.0')**  
**2408239-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0149	44.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	60.9 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (24.0')**  
**2408239-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	7.30	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	75.9	0.400	"	"	"	"	"	"
Cadmium	0.581	0.200	"	"	"	"	"	"
Copper	32.7	0.400	"	"	"	"	"	"
Lead	24.6	0.200	"	"	"	"	"	"
Nickel	28.4	0.400	"	"	"	"	"	"
Silver	0.0374	0.0200	"	"	"	"	"	"
Zinc	151	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	4.87	0.0500	"	"	"	"	"	"	
Sodium	14.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.896	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-1 (24.0')**  
**2408239-06 (Soil)**

**Summit Scientific**

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

% Solids	82.9	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.186</b>	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.50</b>		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**MW-1 (14.0')**  
**2408239-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>0.062</b>	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	ND	0.50	"	100	"	"	08/26/24	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>14</b>	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>7.9</b>	0.50	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>5.2</b>	0.50	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.21</b>	0.0038	"	1	"	"	08/24/24	"	
<b>Gasoline Range Hydrocarbons</b>	<b>370</b>	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0418	105 %	50-150		"	"	08/24/24	"	
<i>Surrogate: Toluene-d8</i>	0.211	527 %	50-150		"	"	"	"	S-02
<i>Surrogate: 4-Bromofluorobenzene</i>	0.276	691 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>940</b>	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>87</b>	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	13.8	111 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**MW-1 (14.0')  
2408239-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.00806</b>	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.359</b>	0.00500	"	"	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>0.661</b>	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0241	72.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.8 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**MW-1 (14.0')  
2408239-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.17	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	38.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.32	0.400	"	"	"	"	"	"
Lead	2.75	0.200	"	"	"	"	"	"
Nickel	2.64	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	4.29	0.0500	"	"	"	"	"	"	
Sodium	1.68	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0781	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**MW-1 (14.0')  
2408239-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.261	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**MW-1 (18.0')  
2408239-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.20	mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	4.8	0.50	"	"	"	"	"	"	
Ethylbenzene	1.2	0.50	"	"	"	"	"	"	
Xylenes (total)	20	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	5.7	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.9	0.50	"	"	"	"	"	"	
Naphthalene	0.15	0.0038	"	1	"	"	08/24/24	"	
Gasoline Range Hydrocarbons	780	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.327	817 %	50-150		"	"	08/24/24	"	S-02
Surrogate: Toluene-d8	0.00	%	50-150		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene	0.510	1280 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	120	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.48	59.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**MW-1 (18.0')  
2408239-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0121</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00677</b>	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	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00550</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.393</b>	0.00500	"	"	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>0.597</b>	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0263	78.8 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**MW-1 (18.0')  
2408239-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.04	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	31.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.51	0.400	"	"	"	"	"	"
Lead	2.73	0.200	"	"	"	"	"	"
Nickel	3.34	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.5	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.63	0.0500	"	"	"	"	"	"	
Sodium	7.25	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.332	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**MW-1 (18.0')  
2408239-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.264	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-3 (1.0')**  
**2408239-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.0037	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.075	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.038	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.99	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.38	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.23	0.0050	"	"	"	"	"	"	
Naphthalene	0.018	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.8	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0467	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0447	112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.28	74.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-3 (1.0')**  
**2408239-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	69.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0280	84.1 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-3 (1.0')**  
**2408239-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.45	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	30.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.09	0.400	"	"	"	"	"	"
Lead	6.34	0.200	"	"	"	"	"	"
Nickel	3.59	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	14.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.7	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	27.6	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.701	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-3 (1.0')  
2408239-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.01	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.35		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
09/03/24 08:26

**SB-3 (20.0')**  
**2408239-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/26/24	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: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0451	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.97	55.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-3 (20.0')**  
**2408239-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.2 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-3 (20.0')**  
**2408239-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	8.44	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	60.7	0.400	"	"	"	"	"	"
Cadmium	0.794	0.200	"	"	"	"	"	"
Copper	26.5	0.400	"	"	"	"	"	"
Lead	25.5	0.200	"	"	"	"	"	"
Nickel	40.3	0.400	"	"	"	"	"	"
Silver	0.0364	0.0200	"	"	"	"	"	"
Zinc	121	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.3	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.97	0.0500	"	"	"	"	"	"	
Sodium	17.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.01	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-3 (20.0')**  
**2408239-10 (Soil)**

**Summit Scientific**

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

% Solids	81.7	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.202	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-4 (15.0')**  
**2408239-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
<b>Toluene</b>	<b>0.016</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3.9</b>	0.010	"	"	"	"	"	"	E
<b>1,2,4-Trimethylbenzene</b>	<b>1.7</b>	0.0050	"	"	"	"	"	"	E
<b>1,3,5-Trimethylbenzene</b>	<b>1.7</b>	0.0050	"	"	"	"	"	"	E
<b>Naphthalene</b>	<b>0.067</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>130</b>	0.50	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0829	207 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.187	466 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>170</b>	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.8	94.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-4 (15.0')**  
**2408239-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 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	0.0137	41.0 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-4 (15.0')**  
**2408239-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.18	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	43.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.65	0.400	"	"	"	"	"	"
Lead	2.83	0.200	"	"	"	"	"	"
Nickel	3.22	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.6	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.69	0.0500	"	"	"	"	"	"	
Sodium	13.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.507	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-4 (15.0')  
2408239-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.301	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-4 (18.0')**  
**2408239-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.48	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.53	0.050	"	10	"	"	08/26/24	"	
Ethylbenzene	0.11	0.0050	"	1	"	"	08/24/24	"	
Xylenes (total)	1.6	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.21	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.15	0.0050	"	"	"	"	"	"	
Naphthalene	0.012	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	35	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0429	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0491	123 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0456	114 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.89	79.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-4 (18.0')**  
**2408239-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0412</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0956</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.6 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-4 (18.0')**  
**2408239-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.957	0.180	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	43.0	0.360	"	"	"	"	"	"
Cadmium	ND	0.180	"	"	"	"	"	"
Copper	2.42	0.360	"	"	"	"	"	"
Lead	2.98	0.180	"	"	"	"	"	"
Nickel	2.76	0.360	"	"	"	"	"	"
Silver	ND	0.0180	"	"	"	"	"	"
Zinc	11.2	0.360	"	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	9.15	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.357	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-4 (18.0')  
2408239-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.380	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-5 (17.0')**  
**2408239-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.20	mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	5.3	0.50	"	"	"	"	"	"	
Ethylbenzene	0.50	0.0050	"	1	"	"	08/24/24	"	
Xylenes (total)	12	1.0	"	100	"	"	08/26/24	"	
1,2,4-Trimethylbenzene	2.2	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.59	0.0050	"	1	"	"	08/24/24	"	
Naphthalene	0.038	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	210	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.6 %	50-150		"	"	08/24/24	"	
Surrogate: Toluene-d8	0.0688	172 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0593	148 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	73	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.00	72.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-5 (17.0')**  
**2408239-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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	<b>0.0115</b>	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	<b>0.0309</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.6 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-5 (17.0')  
2408239-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.12	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	34.9	0.400	"	"	"	"	"	"
Cadmium	0.200	0.200	"	"	"	"	"	"
Copper	13.9	0.400	"	"	"	"	"	"
Lead	11.7	0.200	"	"	"	"	"	"
Nickel	9.20	0.400	"	"	"	"	"	"
Silver	0.0241	0.0200	"	"	"	"	"	"
Zinc	35.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	9.07	0.0500	"	"	"	"	"	"	
Sodium	9.33	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.500	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
09/03/24 08:26

**SB-5 (17.0')**  
**2408239-13 (Soil)**

**Summit Scientific**

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

% Solids	85.3	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.146	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.71		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-5 (20.0')**  
**2408239-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	0.0053	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0060	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.10	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.055	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.035	0.0050	"	"	"	"	"	"	
Naphthalene	0.0050	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.3	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0466	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0476	119 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0435	109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.65	77.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-5 (20.0')**  
**2408239-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.1 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
09/03/24 08:26

**SB-5 (20.0')**  
**2408239-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.32	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	43.2	0.400	"	"	"	"	"	"
Cadmium	0.339	0.200	"	"	"	"	"	"
Copper	11.2	0.400	"	"	"	"	"	"
Lead	10.7	0.200	"	"	"	"	"	"
Nickel	15.7	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	90.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.37	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	8.99	0.0500	"	"	"	"	"	"	
Sodium	8.71	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.547	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-5 (20.0')  
2408239-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.8		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.158	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-6 (16.0')**  
**2408239-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0451	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.8	94.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-6 (16.0')  
2408239-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0103	30.8 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0154	46.2 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-6 (16.0')**  
**2408239-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.46	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	36.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.41	0.400	"	"	"	"	"	"
Lead	3.48	0.200	"	"	"	"	"	"
Nickel	5.44	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	16.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.8	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	12.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.561	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-6 (16.0')  
2408239-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.352	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-6 (20.0')**  
**2408239-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.41	59.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-6 (20.0')**  
**2408239-16 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0138	41.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.5 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-6 (20.0')**  
**2408239-16 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.99	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	20.4	0.400	"	"	"	"	"	"
Cadmium	0.257	0.200	"	"	"	"	"	"
Copper	11.5	0.400	"	"	"	"	"	"
Lead	17.5	0.200	"	"	"	"	"	"
Nickel	8.55	0.400	"	"	"	"	"	"
Silver	0.0229	0.0200	"	"	"	"	"	"
Zinc	49.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.1	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	10.7	0.0500	"	"	"	"	"	"	
Sodium	23.8	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.10	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-6 (20.0')**  
**2408239-16 (Soil)**

**Summit Scientific**

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

% Solids	81.9	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.316	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-7 (16.0')**  
**2408239-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0452	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.90	79.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-7 (16.0')**  
**2408239-17 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0248	74.5 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-7 (16.0')**  
**2408239-17 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.32	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	34.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.56	0.400	"	"	"	"	"	"
Lead	2.77	0.200	"	"	"	"	"	"
Nickel	2.50	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.3	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	27.4	0.0500	"	"	"	"	"	"	
Sodium	47.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.24	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-7 (16.0')**  
**2408239-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.241	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.87		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-7 (19.0')**  
**2408239-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.31	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.23	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0065	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.093	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0074	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.1	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.92	79.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-7 (19.0')**  
**2408239-18 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.6 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-7 (19.0')**  
**2408239-18 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.45	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	49.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.74	0.400	"	"	"	"	"	"
Lead	2.93	0.200	"	"	"	"	"	"
Nickel	3.21	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	4.41	0.0500	"	"	"	"	"	"	
Sodium	62.6	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.19	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-7 (19.0')**  
**2408239-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.466	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-8 (15.0')**  
**2408239-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0453	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.6	93.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-8 (15.0')**  
**2408239-19 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0251	75.4 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-8 (15.0')**  
**2408239-19 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.33	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	41.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.61	0.400	"	"	"	"	"	"
Lead	2.82	0.200	"	"	"	"	"	"
Nickel	3.24	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	28.2	0.0500	"	"	"	"	"	"	
Sodium	85.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.09	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-8 (15.0')  
2408239-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.443	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.98		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-8 (19.0')**  
**2408239-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>0.019</b>	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0462	116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.82	70.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-8 (19.0')**  
**2408239-20 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0179	53.8 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-8 (19.0')**  
**2408239-20 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.38	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	30.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	12.3	0.400	"	"	"	"	"	"
Lead	10.6	0.200	"	"	"	"	"	"
Nickel	6.21	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	28.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.22	0.0500	"	"	"	"	"	"	
Sodium	9.35	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.527	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-8 (19.0')**  
**2408239-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-9 (16.0')**  
**2408239-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.0059</b>	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.84	78.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-9 (16.0')**  
**2408239-21 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.2 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-9 (16.0')**  
**2408239-21 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.78	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	29.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.74	0.400	"	"	"	"	"	"
Lead	7.72	0.200	"	"	"	"	"	"
Nickel	4.52	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	22.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.2	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.92	0.0500	"	"	"	"	"	"	
Sodium	21.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.09	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-9 (16.0')**  
**2408239-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.256	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-9 (18.0')**  
**2408239-22 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.20	mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	R-05
Toluene	0.87	0.50	"	"	"	"	"	"	
Ethylbenzene	1.2	0.50	"	"	"	"	"	"	
Xylenes (total)	28	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	15	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	9.6	0.50	"	"	"	"	"	"	
Naphthalene	0.59	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	790	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.00	%	50-150		"	"	08/24/24	"	S-04
Surrogate: Toluene-d8	0.325	812 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.212	529 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	610	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.7	93.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-9 (18.0')  
2408239-22 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0392</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0889</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0160	48.0 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-9 (18.0')**  
**2408239-22 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	6.15	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	77.9	0.400	"	"	"	"	"	"
Cadmium	0.543	0.200	"	"	"	"	"	"
Copper	20.6	0.400	"	"	"	"	"	"
Lead	18.1	0.200	"	"	"	"	"	"
Nickel	21.1	0.400	"	"	"	"	"	"
Silver	0.0425	0.0200	"	"	"	"	"	"
Zinc	126	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.7	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.81	0.0500	"	"	"	"	"	"	
Sodium	15.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.890	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-9 (18.0')**  
**2408239-22 (Soil)**

**Summit Scientific**

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

% Solids	83.3	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.175	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-10 (16.0')  
2408239-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0655	08/22/24	08/23/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0659	08/22/24	08/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.1	81.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-10 (16.0')  
2408239-23 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0687	08/23/24	08/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.6 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-10 (16.0')  
2408239-23 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.06	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	28.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.22	0.400	"	"	"	"	"	"
Lead	2.36	0.200	"	"	"	"	"	"
Nickel	2.50	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.97	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0665	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.9	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	8.71	0.0500	"	"	"	"	"	"	
Sodium	3.34	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.164	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-10 (16.0')  
2408239-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.258	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
09/03/24 08:26

**SB-10 (20.0')  
2408239-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0655	08/22/24	08/23/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0659	08/22/24	08/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.64	69.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-10 (20.0')  
2408239-24 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0687	08/23/24	08/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 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	0.0152	45.7 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
09/03/24 08:26

**SB-10 (20.0')  
2408239-24 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.58	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	27.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	16.2	0.400	"	"	"	"	"	"
Lead	15.3	0.200	"	"	"	"	"	"
Nickel	10.1	0.400	"	"	"	"	"	"
Silver	0.0409	0.0200	"	"	"	"	"	"
Zinc	49.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0665	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.12	0.0500	"	"	"	"	"	"	
Sodium	15.6	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.913	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**SB-10 (20.0')  
2408239-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.177	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**MW-1**  
**2408239-25 (Water)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>7000</b>	100	ug/l	100	BHH0712	08/23/24	08/26/24	EPA 8260B	
<b>Toluene</b>	<b>22000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1300</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>16000</b>	200	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>42</b>	1.0	"	1	"	"	08/24/24	"	
<b>1,2,4-Trimethylbenzene</b>	<b>1400</b>	100	"	100	"	"	08/26/24	"	
<b>1,3,5-Trimethylbenzene</b>	<b>200</b>	1.0	"	1	"	"	08/24/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.4	92.6 %	23-173		"	"	08/26/24	"	
<i>Surrogate: Toluene-d8</i>	13.2	99.0 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	13.2	99.2 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>7.58</b>	0.0600	mg/L	50	BHH0560	08/21/24	08/27/24	EPA 300.0	
<b>Sulfate</b>	<b>4.38</b>	0.300	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>722</b>	10.0	mg/L	1	BHH0804	08/27/24	08/27/24	SM2540C	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

## 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 BHH0654 - EPA 5030 Soil MS

##### Blank (BHH0654-BLK1)

Prepared: 08/22/24 Analyzed: 08/23/24

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	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	50-150			

##### LCS (BHH0654-BS1)

Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	0.104	0.0020	mg/kg	0.100		104	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.216	0.010	"	0.200		108	70-130			
o-Xylene	0.106	0.0050	"	0.100		106	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100		106	70-130			
Naphthalene	0.0998	0.0038	"	0.100		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

##### Matrix Spike (BHH0654-MS1)

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130			
Toluene	0.101	0.0050	"	0.100	ND	101	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.206	0.010	"	0.200	ND	103	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	0.100	0.0050	"	0.100	ND	100	70-130			
Naphthalene	0.103	0.0038	"	0.100	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

## 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 BHH0654 - EPA 5030 Soil MS

##### Matrix Spike Dup (BHH0654-MSD1)

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	0.0998	0.0020	mg/kg	0.100	ND	99.8	70-130	1.31	30	
Toluene	0.103	0.0050	"	0.100	ND	103	70-130	1.12	30	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	2.14	30	
m,p-Xylene	0.215	0.010	"	0.200	ND	108	70-130	4.35	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	3.08	30	
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	2.11	30	
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	3.98	30	
Naphthalene	0.0964	0.0038	"	0.100	ND	96.4	70-130	6.77	30	
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

#### Batch BHH0655 - EPA 5030 Soil MS

##### Blank (BHH0655-BLK1)

Prepared & Analyzed: 08/22/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

## 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 BHH0655 - EPA 5030 Soil MS

##### LCS (BHH0655-BS1)

Prepared & Analyzed: 08/22/24

Benzene	0.120	0.0020	mg/kg	0.100		120	70-130			
Toluene	0.111	0.0050	"	0.100		111	70-130			
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130			
m,p-Xylene	0.227	0.010	"	0.200		114	70-130			
o-Xylene	0.118	0.0050	"	0.100		118	70-130			
1,2,4-Trimethylbenzene	0.117	0.0050	"	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.100		118	70-130			
Naphthalene	0.113	0.0038	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.3	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

##### Matrix Spike (BHH0655-MS1)

Source: 2408234-21

Prepared & Analyzed: 08/22/24

Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
m,p-Xylene	0.199	0.010	"	0.200	ND	99.4	70-130			
o-Xylene	0.0917	0.0050	"	0.100	ND	91.7	70-130			
1,2,4-Trimethylbenzene	0.0886	0.0050	"	0.100	ND	88.6	70-130			
1,3,5-Trimethylbenzene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
Naphthalene	0.0860	0.0038	"	0.100	ND	86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

##### Matrix Spike Dup (BHH0655-MSD1)

Source: 2408234-21

Prepared & Analyzed: 08/22/24

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130	2.21	30	
Toluene	0.0988	0.0050	"	0.100	ND	98.8	70-130	3.08	30	
Ethylbenzene	0.0979	0.0050	"	0.100	ND	97.9	70-130	3.67	30	
m,p-Xylene	0.190	0.010	"	0.200	ND	95.0	70-130	4.52	30	
o-Xylene	0.0876	0.0050	"	0.100	ND	87.6	70-130	4.62	30	
1,2,4-Trimethylbenzene	0.0825	0.0050	"	0.100	ND	82.5	70-130	7.05	30	
1,3,5-Trimethylbenzene	0.0860	0.0050	"	0.100	ND	86.0	70-130	5.00	30	
Naphthalene	0.0760	0.0038	"	0.100	ND	76.0	70-130	12.4	30	
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

## 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 BHH0712 - EPA 5030 Water MS

##### Blank (BHH0712-BLK1)

Prepared: 08/23/24 Analyzed: 08/24/24

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.4	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.7	21-167			

##### LCS (BHH0712-BS1)

Prepared: 08/23/24 Analyzed: 08/24/24

Benzene	40.1	1.0	ug/l	33.3		120	51-132			
Toluene	38.3	1.0	"	33.3		115	51-138			
Ethylbenzene	45.4	1.0	"	33.3		136	58-146			
m,p-Xylene	77.6	2.0	"	66.7		116	57-144			
o-Xylene	37.1	1.0	"	33.3		111	53-146			
Naphthalene	34.7	1.0	"	33.3		104	70-130			
1,2,4-Trimethylbenzene	37.4	1.0	"	33.3		112	70-130			
1,3,5-Trimethylbenzene	38.3	1.0	"	33.3		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.1	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.7	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.3	21-167			

##### LCS Dup (BHH0712-BSD1)

Prepared: 08/23/24 Analyzed: 08/24/24

Benzene	40.6	1.0	ug/l	33.3		122	51-132	1.29	20	
Toluene	39.0	1.0	"	33.3		117	51-138	1.71	20	
Ethylbenzene	46.2	1.0	"	33.3		139	58-146	1.81	20	
m,p-Xylene	79.2	2.0	"	66.7		119	57-144	2.16	20	
o-Xylene	37.6	1.0	"	33.3		113	53-146	1.31	20	
Naphthalene	35.7	1.0	"	33.3		107	70-130	2.67	20	
1,2,4-Trimethylbenzene	38.9	1.0	"	33.3		117	70-130	3.96	20	
1,3,5-Trimethylbenzene	39.7	1.0	"	33.3		119	70-130	3.41	20	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.7	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.2	21-167			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**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 BHH0658 - EPA 3550A**

**Blank (BHH0658-BLK1)**

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.5		"	12.5		108	30-150			

**LCS (BHH0658-BS1)**

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	447	50	mg/kg	500		89.4	70-130			
Surrogate: o-Terphenyl	12.2		"	12.5		97.7	30-150			

**Matrix Spike (BHH0658-MS1)**

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	449	50	mg/kg	500	38.5	82.0	70-130			
Surrogate: o-Terphenyl	12.2		"	12.5		97.5	30-150			

**Matrix Spike Dup (BHH0658-MSD1)**

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	455	50	mg/kg	500	38.5	83.3	70-130	1.37	20	
Surrogate: o-Terphenyl	12.7		"	12.5		102	30-150			

**Batch BHH0659 - EPA 3550A**

**Blank (BHH0659-BLK1)**

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.3		"	12.5		98.7	30-150			

**LCS (BHH0659-BS1)**

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	571	50	mg/kg	500		114	70-130			
Surrogate: o-Terphenyl	12.9		"	12.5		103	30-150			

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

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

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

**Batch BHH0659 - EPA 3550A**

<b>Matrix Spike (BHH0659-MS1)</b>		<b>Source: 2408234-21</b>			Prepared: 08/22/24 Analyzed: 08/25/24						
C10-C28 (DRO)	563	50	mg/kg	500	ND	113	70-130				
Surrogate: o-Terphenyl	14.8		"	12.5		118	30-150				
<b>Matrix Spike Dup (BHH0659-MSD1)</b>		<b>Source: 2408234-21</b>			Prepared: 08/22/24 Analyzed: 08/25/24						
C10-C28 (DRO)	531	50	mg/kg	500	ND	106	70-130	5.85	20		
Surrogate: o-Terphenyl	14.6		"	12.5		117	30-150				

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Fremont Environmental  
PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

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

### Summit Scientific

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

#### Batch BHH0685 - EPA 5030 Soil MS

##### Blank (BHH0685-BLK1)

Prepared & Analyzed: 08/23/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0173	"	0.0333	51.8	40-150
Surrogate: Fluoranthene-d10	0.0304	"	0.0333	91.2	40-150

##### LCS (BHH0685-BS1)

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0139	0.00500	mg/kg	0.0333	41.8	31-137
Anthracene	0.0140	0.00500	"	0.0333	42.0	30-120
Benzo (a) anthracene	0.0155	0.00500	"	0.0333	46.5	30-120
Benzo (a) pyrene	0.0141	0.00500	"	0.0333	42.3	30-120
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	41.8	30-120
Benzo (k) fluoranthene	0.0138	0.00500	"	0.0333	41.4	30-120
Chrysene	0.0151	0.00500	"	0.0333	45.3	30-120
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	40.1	30-120
Fluoranthene	0.0138	0.00500	"	0.0333	41.4	30-120
Fluorene	0.0153	0.00500	"	0.0333	45.8	30-120
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333	48.0	30-120
Pyrene	0.0177	0.00500	"	0.0333	53.0	35-142
1-Methylnaphthalene	0.0136	0.00500	"	0.0333	40.9	35-142
2-Methylnaphthalene	0.0145	0.00500	"	0.0333	43.4	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0136	"	0.0333	40.8	40-150
Surrogate: Fluoranthene-d10	0.0143	"	0.0333	42.9	40-150

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

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

### Summit Scientific

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

#### Batch BHH0685 - EPA 5030 Soil MS

##### Matrix Spike (BHH0685-MS1)

Source: 2408239-03

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0227	0.00500	mg/kg	0.0333	ND	68.2	31-137			
Anthracene	0.0266	0.00500	"	0.0333	ND	79.7	30-120			
Benzo (a) anthracene	0.0284	0.00500	"	0.0333	ND	85.3	30-120			
Benzo (a) pyrene	0.0207	0.00500	"	0.0333	ND	62.0	30-120			
Benzo (b) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120			
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.7	30-120			
Chrysene	0.0273	0.00500	"	0.0333	ND	82.0	30-120			
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	54.0	30-120			
Fluoranthene	0.0267	0.00500	"	0.0333	ND	80.2	30-120			
Fluorene	0.0249	0.00500	"	0.0333	ND	74.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.6	30-120			
Pyrene	0.0314	0.00500	"	0.0333	ND	94.1	35-142			
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.8	15-130			
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0237		"	0.0333		71.0	40-150			
Surrogate: Fluoranthene-d10	0.0272		"	0.0333		81.7	40-150			

##### Matrix Spike Dup (BHH0685-MSD1)

Source: 2408239-03

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0140	0.00500	mg/kg	0.0333	ND	42.0	31-137	47.7	30	QR-02
Anthracene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	54.3	30	QR-02
Benzo (a) anthracene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	51.3	30	QR-02
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	33.8	30	QR-02
Benzo (b) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	39.1	30	QR-02
Benzo (k) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	37.5	30	QR-02
Chrysene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	51.8	30	QR-02
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	19.8	30	
Fluoranthene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	58.2	30	QR-02
Fluorene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	51.1	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	4.72	30	
Pyrene	0.0189	0.00500	"	0.0333	ND	56.8	35-142	49.4	30	QR-02
1-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.3	15-130	44.8	50	
2-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	41.9	15-130	48.0	50	
Surrogate: 2-Methylnaphthalene-d10	0.0153		"	0.0333		45.9	40-150			
Surrogate: Fluoranthene-d10	0.0153		"	0.0333		45.8	40-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

## 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 BHH0687 - EPA 5030 Soil MS

##### Blank (BHH0687-BLK1)

Prepared & Analyzed: 08/23/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0202		"	0.0333		60.5	40-150			
Surrogate: Fluoranthene-d10	0.0274		"	0.0333		82.2	40-150			

##### LCS (BHH0687-BS1)

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0246	0.00500	mg/kg	0.0333		73.8	31-137			
Anthracene	0.0240	0.00500	"	0.0333		72.1	30-120			
Benzo (a) anthracene	0.0252	0.00500	"	0.0333		75.5	30-120			
Benzo (a) pyrene	0.0188	0.00500	"	0.0333		56.5	30-120			
Benzo (b) fluoranthene	0.0179	0.00500	"	0.0333		53.8	30-120			
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333		51.9	30-120			
Chrysene	0.0247	0.00500	"	0.0333		74.1	30-120			
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333		66.0	30-120			
Fluoranthene	0.0236	0.00500	"	0.0333		70.7	30-120			
Fluorene	0.0245	0.00500	"	0.0333		73.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0159	0.00500	"	0.0333		47.6	30-120			
Pyrene	0.0285	0.00500	"	0.0333		85.5	35-142			
1-Methylnaphthalene	0.0213	0.00500	"	0.0333		63.9	35-142			
2-Methylnaphthalene	0.0209	0.00500	"	0.0333		62.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		64.8	40-150			
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.6	40-150			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

### 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 BHH0687 - EPA 5030 Soil MS

##### Matrix Spike (BHH0687-MS1)

Source: 2408239-23

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0181	0.00500	mg/kg	0.0333	ND	54.4	31-137				
Anthracene	0.0179	0.00500	"	0.0333	ND	53.8	30-120				
Benzo (a) anthracene	0.0185	0.00500	"	0.0333	ND	55.5	30-120				
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.6	30-120				
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120				
Benzo (k) fluoranthene	0.0153	0.00500	"	0.0333	ND	45.8	30-120				
Chrysene	0.0184	0.00500	"	0.0333	ND	55.2	30-120				
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	44.9	30-120				
Fluoranthene	0.0174	0.00500	"	0.0333	ND	52.2	30-120				
Fluorene	0.0183	0.00500	"	0.0333	ND	54.9	30-120				
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.8	30-120				
Pyrene	0.0220	0.00500	"	0.0333	ND	65.9	35-142				
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.1	15-130				
2-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.1	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0162		"	0.0333		48.6	40-150				
Surrogate: Fluoranthene-d10	0.0175		"	0.0333		52.4	40-150				

##### Matrix Spike Dup (BHH0687-MSD1)

Source: 2408239-23

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0169	0.00500	mg/kg	0.0333	ND	50.7	31-137	7.00	30		
Anthracene	0.0168	0.00500	"	0.0333	ND	50.3	30-120	6.75	30		
Benzo (a) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	6.64	30		
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	31.8	30		QR-02
Benzo (b) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	7.18	30		
Benzo (k) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.7	30-120	7.14	30		
Chrysene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	7.47	30		
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	40.9	30		QR-02
Fluoranthene	0.0162	0.00500	"	0.0333	ND	48.7	30-120	6.96	30		
Fluorene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	7.17	30		
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	8.42	30		
Pyrene	0.0198	0.00500	"	0.0333	ND	59.5	35-142	10.2	30		
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.7	15-130	8.97	50		
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.7	15-130	7.24	50		
Surrogate: 2-Methylnaphthalene-d10	0.0157		"	0.0333		47.0	40-150				
Surrogate: Fluoranthene-d10	0.0162		"	0.0333		48.6	40-150				

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**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 BHH0697 - EPA 3050B**

**Blank (BHH0697-BLK1)**

Prepared: 08/23/24 Analyzed: 08/26/24

Boron ND 2.00 mg/L

**LCS (BHH0697-BS1)**

Prepared: 08/23/24 Analyzed: 08/26/24

Boron 5.08 2.00 mg/L 5.00 102 80-120

**Duplicate (BHH0697-DUP1)**

**Source: 2408234-14**

Prepared: 08/23/24 Analyzed: 08/26/24

Boron ND 2.00 mg/L 0.00835 200 20 QR-01

**Matrix Spike (BHH0697-MS1)**

**Source: 2408234-14**

Prepared: 08/23/24 Analyzed: 08/26/24

Boron 4.71 2.00 mg/L 5.00 0.00835 93.9 75-125

**Matrix Spike Dup (BHH0697-MSD1)**

**Source: 2408234-14**

Prepared: 08/23/24 Analyzed: 08/26/24

Boron 4.91 2.00 mg/L 5.00 0.00835 97.9 75-125 4.16 25

**Batch BHH0698 - EPA 3050B**

**Blank (BHH0698-BLK1)**

Prepared: 08/23/24 Analyzed: 08/27/24

Boron ND 2.00 mg/L

**LCS (BHH0698-BS1)**

Prepared: 08/23/24 Analyzed: 08/27/24

Boron 5.03 2.00 mg/L 5.00 101 80-120

**Duplicate (BHH0698-DUP1)**

**Source: 2408239-12**

Prepared: 08/23/24 Analyzed: 08/27/24

Boron 0.117 2.00 mg/L 0.134 13.8 20

**Matrix Spike (BHH0698-MS1)**

**Source: 2408239-12**

Prepared: 08/23/24 Analyzed: 08/27/24

Boron 4.69 2.00 mg/L 4.98 0.134 91.5 75-125

Summit Scientific

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Fremont Environmental	Project: Noble - Loustalet -64N64W 30NESE	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	09/03/24 08:26

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

Summit Scientific

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

Batch BHH0698 - EPA 3050B

Matrix Spike Dup (BHH0698-MSD1)	Source: 2408239-12			Prepared: 08/23/24 Analyzed: 08/27/24						
Boron	4.91	2.00	mg/L	4.98	0.134	95.9	75-125	4.54	25	

*Atalio Bessin*



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**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 BHH0642 - EPA 3050B**

**Blank (BHH0642-BLK1)**

Prepared: 08/22/24 Analyzed: 08/27/24

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 (BHH0642-BS1)**

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	36.9	0.200	mg/kg wet	36.5	101	80-120
Barium	37.8	0.400	"	36.5	104	80-120
Cadmium	1.74	0.200	"	1.82	95.2	80-120
Copper	36.4	0.400	"	36.5	99.9	80-120
Lead	18.2	0.200	"	18.2	100	80-120
Nickel	36.7	0.400	"	36.5	101	80-120
Silver	1.98	0.0200	"	1.82	108	80-120
Zinc	35.9	0.400	"	36.5	98.4	80-120
Selenium	3.63	0.260	"	3.65	99.4	80-120

**Duplicate (BHH0642-DUP1)**

Source: 2408234-20

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	3.24	0.200	mg/kg dry	3.39	4.72	20	
Barium	401	0.400	"	610	41.2	20	QR-02
Cadmium	0.153	0.200	"	0.133	14.6	20	
Copper	3.90	0.400	"	4.05	3.65	20	
Lead	8.98	0.200	"	9.09	1.21	20	
Nickel	4.36	0.400	"	4.53	3.91	20	
Silver	0.0204	0.0200	"	0.0165	21.1	20	QR-01
Zinc	22.6	0.400	"	29.0	24.7	20	QR-02
Selenium	ND	0.260	"	ND		20	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**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 BHH0642 - EPA 3050B**

Matrix Spike (BHH0642-MS1)			Source: 2408234-20		Prepared: 08/22/24 Analyzed: 08/27/24					
Arsenic	54.7	0.200	mg/kg dry	51.3	3.39	100	75-125			
Barium	483	0.400	"	51.3	610	NR	75-125			QM-05
Cadmium	2.63	0.200	"	2.56	0.133	97.4	75-125			
Copper	52.9	0.400	"	51.3	4.05	95.3	75-125			
Lead	33.6	0.200	"	25.6	9.09	95.6	75-125			
Nickel	54.4	0.400	"	51.3	4.53	97.2	75-125			
Silver	2.40	0.0200	"	2.56	0.0165	93.0	75-125			
Zinc	73.3	0.400	"	51.3	29.0	86.5	75-125			
Selenium	4.23	0.260	"	5.13	ND	82.6	75-125			

Matrix Spike Dup (BHH0642-MSD1)			Source: 2408234-20		Prepared: 08/22/24 Analyzed: 08/27/24					
Arsenic	50.0	0.200	mg/kg dry	47.1	3.39	98.9	75-125	9.01	25	
Barium	506	0.400	"	47.1	610	NR	75-125	4.60	25	QM-05
Cadmium	2.42	0.200	"	2.36	0.133	97.3	75-125	8.06	25	
Copper	48.3	0.400	"	47.1	4.05	94.0	75-125	9.05	25	
Lead	31.3	0.200	"	23.6	9.09	94.2	75-125	7.14	25	
Nickel	49.5	0.400	"	47.1	4.53	95.5	75-125	9.28	25	
Silver	2.14	0.0200	"	2.36	0.0165	89.9	75-125	11.7	25	
Zinc	68.9	0.400	"	47.1	29.0	84.8	75-125	6.17	25	
Selenium	3.82	0.260	"	4.71	ND	81.1	75-125	10.3	25	

**Batch BHH0643 - EPA 3050B**

Blank (BHH0643-BLK1)			Prepared: 08/22/24 Analyzed: 08/27/24							
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	"							

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**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 BHH0643 - EPA 3050B**

**LCS (BHH0643-BS1)**

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	37.2	0.200	mg/kg wet	39.1		95.1	80-120			
Barium	38.0	0.400	"	39.1		97.4	80-120			
Cadmium	1.78	0.200	"	1.95		91.0	80-120			
Copper	36.6	0.400	"	39.1		93.7	80-120			
Lead	18.5	0.200	"	19.5		95.0	80-120			
Nickel	36.8	0.400	"	39.1		94.3	80-120			
Silver	1.98	0.0200	"	1.95		102	80-120			
Zinc	35.9	0.400	"	39.1		92.0	80-120			
Selenium	3.72	0.260	"	3.91		95.3	80-120			

**Duplicate (BHH0643-DUP1)**

Source: 2408239-17

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	1.31	0.200	mg/kg dry		1.32			1.02	20	
Barium	39.9	0.400	"		34.5			14.6	20	
Cadmium	0.0471	0.200	"		0.0393			18.1	20	
Copper	2.53	0.400	"		2.56			1.33	20	
Lead	2.89	0.200	"		2.77			4.11	20	
Nickel	2.64	0.400	"		2.50			5.49	20	
Silver	0.00828	0.0200	"		0.00701			16.6	20	
Zinc	11.5	0.400	"		11.0			4.33	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHH0643-MS1)**

Source: 2408239-17

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	41.4	0.200	mg/kg dry	43.3	1.32	92.7	75-125			
Barium	77.3	0.400	"	43.3	34.5	99.0	75-125			
Cadmium	2.04	0.200	"	2.16	0.0393	92.6	75-125			
Copper	41.2	0.400	"	43.3	2.56	89.4	75-125			
Lead	22.6	0.200	"	21.6	2.77	91.6	75-125			
Nickel	42.0	0.400	"	43.3	2.50	91.3	75-125			
Silver	1.95	0.0200	"	2.16	0.00701	90.0	75-125			
Zinc	49.8	0.400	"	43.3	11.0	89.6	75-125			
Selenium	3.69	0.260	"	4.33	ND	85.3	75-125			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**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 BHH0643 - EPA 3050B**

**Matrix Spike Dup (BHH0643-MSD1)**

**Source: 2408239-17**

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	43.2	0.200	mg/kg dry	45.3	1.32	92.5	75-125	4.26	25	
Barium	80.7	0.400	"	45.3	34.5	102	75-125	4.31	25	
Cadmium	2.19	0.200	"	2.26	0.0393	94.9	75-125	6.89	25	
Copper	42.9	0.400	"	45.3	2.56	89.1	75-125	4.00	25	
Lead	24.5	0.200	"	22.6	2.77	95.8	75-125	7.96	25	
Nickel	43.7	0.400	"	45.3	2.50	91.1	75-125	4.07	25	
Silver	2.07	0.0200	"	2.26	0.00701	91.3	75-125	5.93	25	
Zinc	52.1	0.400	"	45.3	11.0	90.8	75-125	4.56	25	
Selenium	3.78	0.260	"	4.53	ND	83.5	75-125	2.38	25	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**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 BHH0664 - 3060A Mod**

**Blank (BHH0664-BLK1)**

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHH0664-BS1)**

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.0 105 80-120

**Duplicate (BHH0664-DUP1)**

**Source: 2408239-03**

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHH0664-MS1)**

**Source: 2408239-03**

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 26.8 ND 104 75-125

**Matrix Spike Dup (BHH0664-MSD1)**

**Source: 2408239-03**

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent 25.9 0.30 mg/kg dry 26.8 ND 96.6 75-125 6.99 20

**Batch BHH0665 - 3060A Mod**

**Blank (BHH0665-BLK1)**

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHH0665-BS1)**

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.2 80-120

**Duplicate (BHH0665-DUP1)**

**Source: 2408233-01**

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHH0665-MS1)**

**Source: 2408233-01**

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent 26.0 0.30 mg/kg dry 26.2 ND 99.2 75-125

Summit Scientific

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Fremont Environmental	Project: Noble - Loustalet -64N64W 30NESE	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	09/03/24 08:26

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BHH0665 - 3060A Mod

Matrix Spike Dup (BHH0665-MSD1)	Source: 2408233-01			Prepared: 08/22/24 Analyzed: 08/23/24					
Chromium, Hexavalent	27.2	0.30	mg/kg dry	26.2	ND	104	75-125	4.72	20

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

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

**Summit Scientific**

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

**Batch BHH0730 - General Preparation**

**Blank (BHH0730-BLK1)**

Prepared: 08/23/24 Analyzed: 08/28/24

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

**LCS (BHH0730-BS1)**

Prepared: 08/23/24 Analyzed: 08/28/24

Calcium	4.59	0.0500	mg/L wet	5.00	91.7	70-130
Magnesium	4.72	0.0500	"	5.00	94.4	70-130
Sodium	4.89	0.0500	"	5.00	97.9	70-130

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

### Anions by EPA Method 300.0 - Quality Control

#### Summit Scientific

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

#### Batch BHH0560 - General Preparation

##### Blank (BHH0560-BLK1)

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

##### LCS (BHH0560-BS1)

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	2.91	0.0600	mg/L	3.00	97.1	90-110
Sulfate	14.6	0.300	"	15.0	97.6	90-110

##### Duplicate (BHH0560-DUP1)

Source: 2408216-21

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	178	0.0600	mg/L	179	0.297	20
Sulfate	2090	0.300	"	2090	0.184	20

##### Matrix Spike (BHH0560-MS1)

Source: 2408216-21

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	324	0.0600	mg/L	600	179	24.2	80-120	QM-05
Sulfate	2900	0.300	"	3000	2090	27.0	80-120	QM-05

Summit Scientific

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Fremont Environmental	Project: Noble - Loustalet -64N64W 30NESE	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	09/03/24 08:26

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 BHH0625 - General Preparation

Duplicate (BHH0625-DUP1)	Source: 2408235-01	Prepared & Analyzed: 08/22/24
% Solids	82.7	% 82.4 0.410 20

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

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

**Batch BHH0804 - General Preparation**

**Blank (BHH0804-BLK1)**

Prepared & Analyzed: 08/27/24

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (BHH0804-DUP1)**

Source: 2408239-25

Prepared & Analyzed: 08/27/24

Total Dissolved Solids 720 10.0 mg/L 722 0.347 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**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 BHH0732 - General Preparation**

**Blank (BHH0732-BLK1)**

Prepared: 08/23/24 Analyzed: 08/27/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHH0732-BS1)**

Prepared: 08/23/24 Analyzed: 08/27/24

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

**Duplicate (BHH0732-DUP1)**

**Source: 2408239-03**

Prepared: 08/23/24 Analyzed: 08/27/24

Specific Conductance (EC) 0.201 0.0100 mmhos/cm 0.202 0.794 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

**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 BHH0624 - General Preparation**

**LCS (BHH0624-BS1)**

Prepared & Analyzed: 08/22/24

pH	9.22		pH Units	9.18	100	95-105
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**Duplicate (BHH0624-DUP1)**

**Source: 2408228-01**

Prepared & Analyzed: 08/22/24

pH	8.57		pH Units	8.59	0.233	20
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**Batch BHH0731 - General Preparation**

**LCS (BHH0731-BS1)**

Prepared: 08/23/24 Analyzed: 08/27/24

pH	9.07		pH Units	9.18	98.8	95-105
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**Duplicate (BHH0731-DUP1)**

**Source: 2408239-03**

Prepared: 08/23/24 Analyzed: 08/27/24

pH	8.90		pH Units	9.06	1.78	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/03/24 08:26

### Notes and Definitions

S-04	A sample matrix effect prevented complete surrogate recovery.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
R-05	The reporting limit for this sample has been raised due to the presence of high levels of non-target analytes.
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.
QR-01	Analyses are not controlled on RPD values from sample concentrations below the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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