

# **FREMONT ENVIRONMENTAL INC.**

April 6, 2023

Mr. Daniel Peterson  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:           **Flowline Closure Data Submittal**  
Land 31-13  
API # 05-123-16009  
SWNE Sec. 31, T4N, R65W  
Weld County, Colorado  
Fremont Project No. C023-031  
Remediation # 25478

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline abandonment activities for the Noble Energy Inc. (Noble) Land 31-13 flowline location. Details of the Land 31-13 flowline abandonment are documented in the attached Closure Report. Soil impacts were not observed. Groundwater was not encountered.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Paul V. Henehan, P.E.  
Senior Consultant

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Reports

**1759 REDWING LANE, BROOMFIELD, CO 80020**  
**(303) 956-8714 (DIRECT)**

# Flowline Closure Checklist

## COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

<i>Additional Attachments:</i>		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
<i>Site Name &amp; COGCC Facility Number:</i>		<i>Date:</i>						<i>Remediation Project #:</i>
<i>Associated Wells:</i>		<i>Age of Site:</i>						<i>Number of Photos Attached:</i>

*Starting point: (GPS coordinates and descriptions)*

*End point: (GPS coordinates and descriptions)*

*USCS Soil Type:* \_\_\_\_\_ *Estimated Depth to Groundwater:* \_\_\_\_\_

*Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)*

*Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)*

### Flowlines

<i>Flowline type</i>								
<i>Depth</i>								
<i>Age</i>								
<i>Length</i>								
<i>Construction Material</i>								
<i>Were flowlines pulled?</i>								
<i>Visual Integrity of lines</i>								
<i>Visual impacts if trenched</i>								
<i>PID Readings if trenched</i>								
<i>Sample taken?</i>								
<i>Location/Sample ID#</i>								
<i>Photo Number(s)</i>								

*Other observations regarding on location flowlines:*

### Summary

<i>Was impacted soil identified?</i>		
No	Yes - less than 10 cubic yards	Yes - more than 10 cubic yards
<i>Total number of samples field screened:</i>		<i>Total number of samples collected:</i>
<i>Highest PID Reading:</i>		<i>Total number of samples submitted to lab for analysis:</i>
<i>If more than 10 cubic yards of impacted soil were observed:</i>		
<i>Vertical extent:</i>		<i>Estimated spill volume:</i>
<i>Lateral extent:</i>		<i>Volume of soil removed:</i>
<i>Is additional investigation required?</i>		
<i>Was groundwater encountered during the investigation?</i>		
No	Yes - not impacted or in contact with impacted soils	Yes - groundwater impacted and/or in contact with impacted soils
<i>Measured depth to groundwater:</i>		<i>Was remedial groundwater removal conducted? Yes      No</i>
<i>Date Groundwater was encountered:</i>		<i>Commencement date of removal:</i>
<i>Sheen on groundwater?                      Yes              No</i>		<i>Volume of groundwater removed prior to sampling:</i>
<i>Free product observed?                      Yes              No</i>		<i>Volume of groundwater removed post sampling:</i>
<i>Total number of samples collected:</i>		<i>Total Volume of groundwater removed:</i>
<i>Total number of samples submitted to lab for analysis:</i>		

**TABLE 1**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**LAND 31-13, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-031**

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
FL01 3FT	02/07/2023	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP 01 SURF.	02/07/2023	Surface	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

\*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
LAND 31-13, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-031

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01 3FT	02/07/2023	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP 01 SURF.	02/07/2023	Surface	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

**TABLE 3**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE ENERGY INC.**  
**LAND 31-13, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-031**

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 3FT	02/07/2023	3	7.67	0.636	2.22	0.233
SEP 01 SURF.	02/07/2023	Surface	5.92	0.100	0.0731	0.051

Bold faced values exceed the COGCC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

NA - Not analyzed

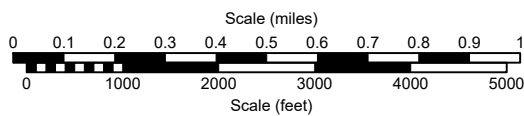
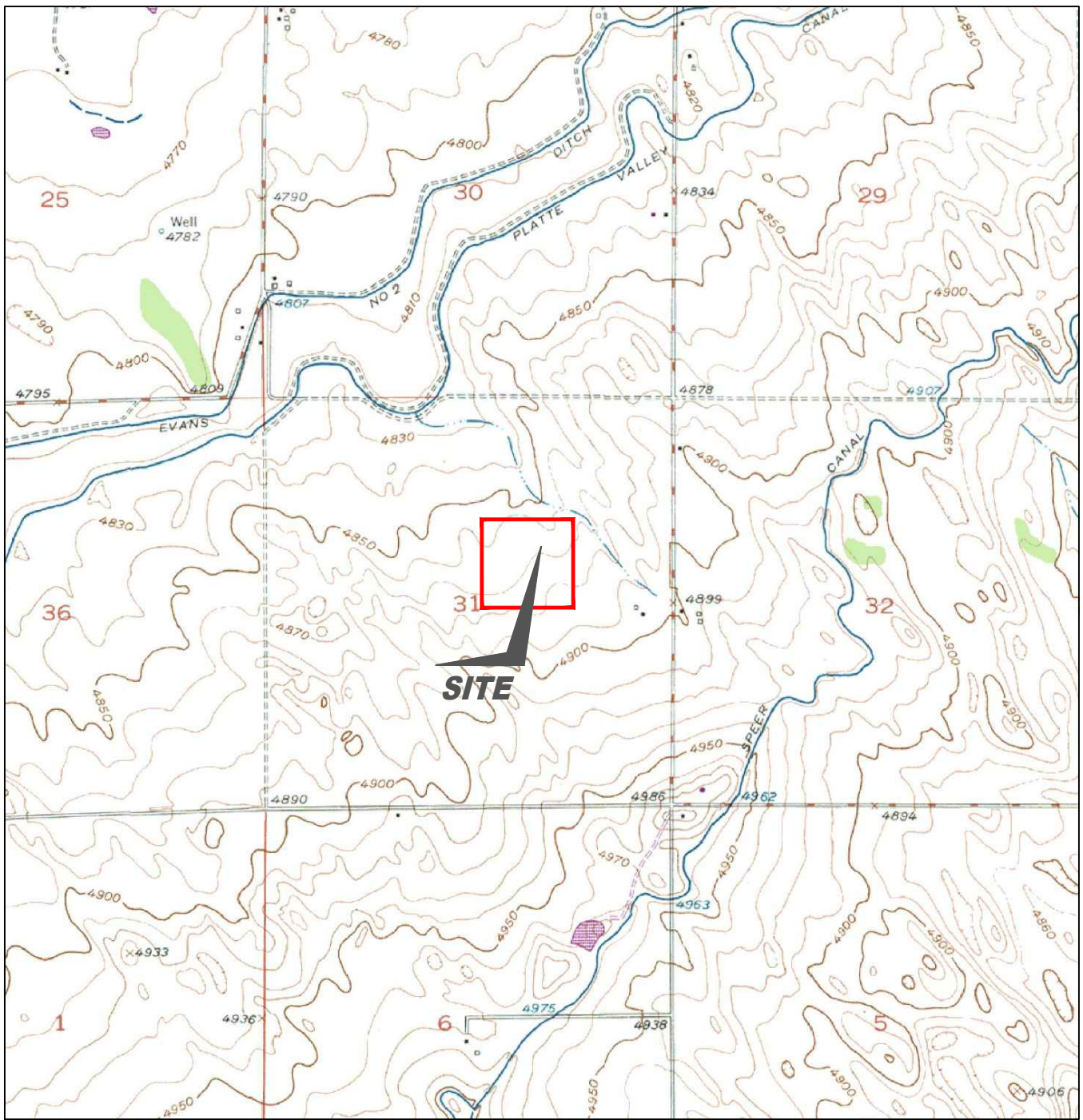
**TABLE 4**  
**SUMMARY OF POTHOLE FIELD OBSERVATIONS**  
**NOBLE ENERGY INC.**  
**LAND 31-13, WELD COUNTY, COLORADO**  
**FREMONT PROJECT C023-031**

Location	Latitude	Longitude	PID Reading	Field Observations
FL01 3 Ft	40.2705887	-104.7039134	0.2	No impacts observed
FL02 3 Ft	40.2706828	-104.70356	0.0	No impacts observed
FL03 3 Ft	40.2707956	-104.70321	9.6	No impacts observed
FL04	40.2708310	-104.7026524	0.2	No impacts observed
FL05 3Ft	40.270885	-104.7009933	0.5	No impacts observed
FL06 3 Ft (sweep)	40.2711807	-104.6994276	0.0	No impacts observed
FL07 3 Ft	40.2705814	-104.698822	0.0	No impacts observed
SEP 01 Surface	40.2704265	-104.6986145	0.0	No impacts observed

**TABLE 5**  
**SUMMARY OF FLOW LINE CONDITION**  
**NOBLE ENERGY INC.**  
**LAND 31-13, WELD COUNTY, COLORADO**  
**FREMONT PROJECT C023-031**

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
FL01 3 Ft	FL02 3 Ft	108	2" sch. 80 carbon steel, yellowjacket epoxy coating, good condition
FL02 3 Ft	FL03 3 Ft	107	2" sch. 80 carbon steel, yellowjacket epoxy coating, good condition
FL03 3 Ft	FL04	164	2" sch. 80 carbon steel, yellowjacket epoxy coating, good condition
FL04	FL05 3Ft	465	2" sch. 80 carbon steel, yellowjacket epoxy coating, good condition
FL05 3Ft	FL06 3 Ft (sweep)	450	2" sch. 80 carbon steel, yellowjacket epoxy coating, good condition
FL06 3 Ft (sweep)	FL07 3 Ft	279	2" sch. 80 carbon steel, yellowjacket epoxy coating, good condition
FL07 3 Ft	SEP 01 Surface	80	2" sch. 80 carbon steel, yellowjacket epoxy coating, good condition

1653      **Total linear feet of flow line**



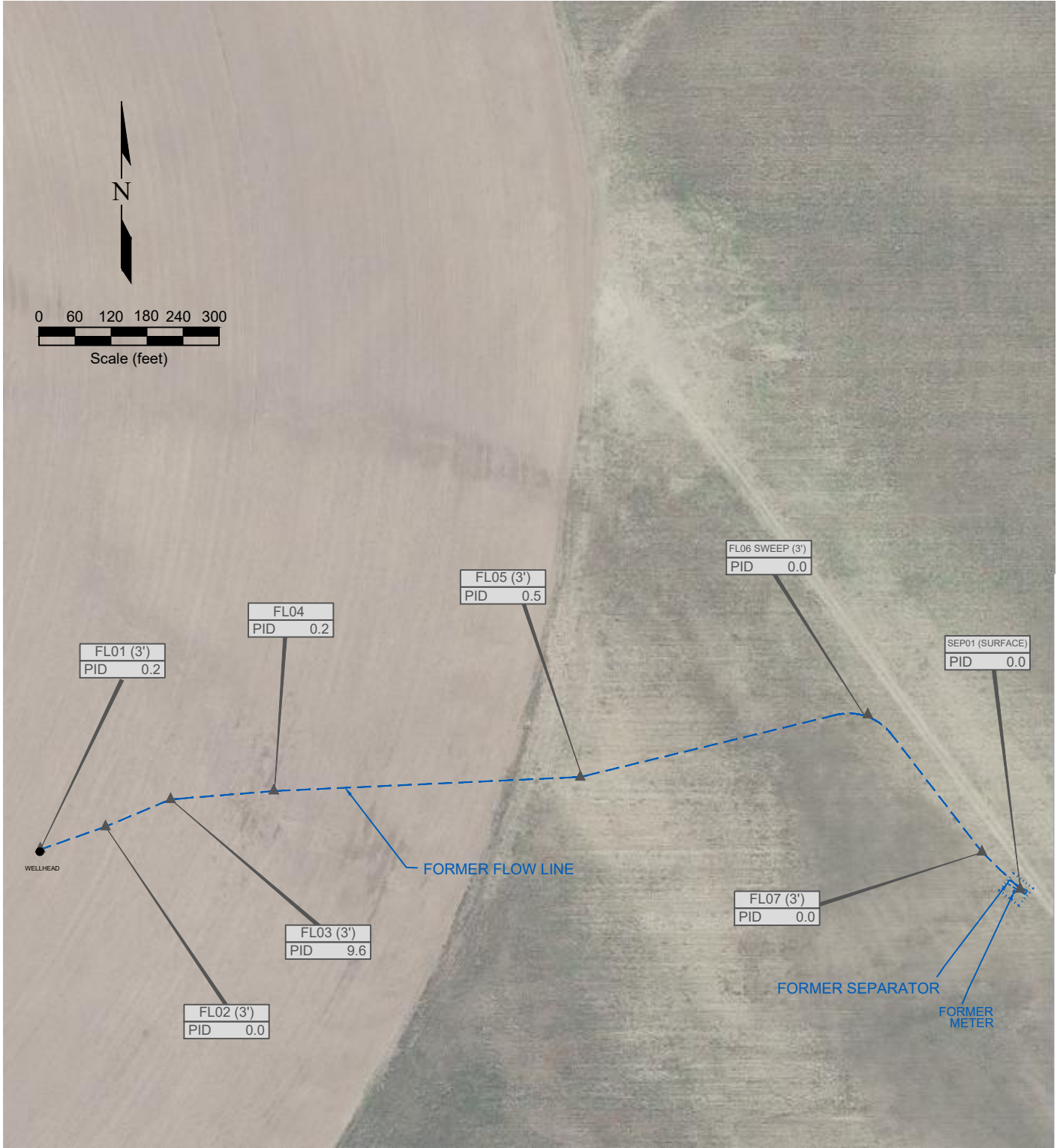
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**

**NOBLE ENERGY INC - LAND 31-13**  
 SWNE Sec. 31, T4N, R65W, 6th PM  
 Weld County, Colorado  
 40.270555°, -104.704003°

Project # <b>CO23-031</b>	API # <b>05-123-16009</b>	Facility #
Date <b>08/05/2023</b>	Remediation # <b>25478</b>	Filename <b>23031TFL</b>





**LEGEND**

- WELLHEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FLOW LINE
- CONTAINMENT BERM

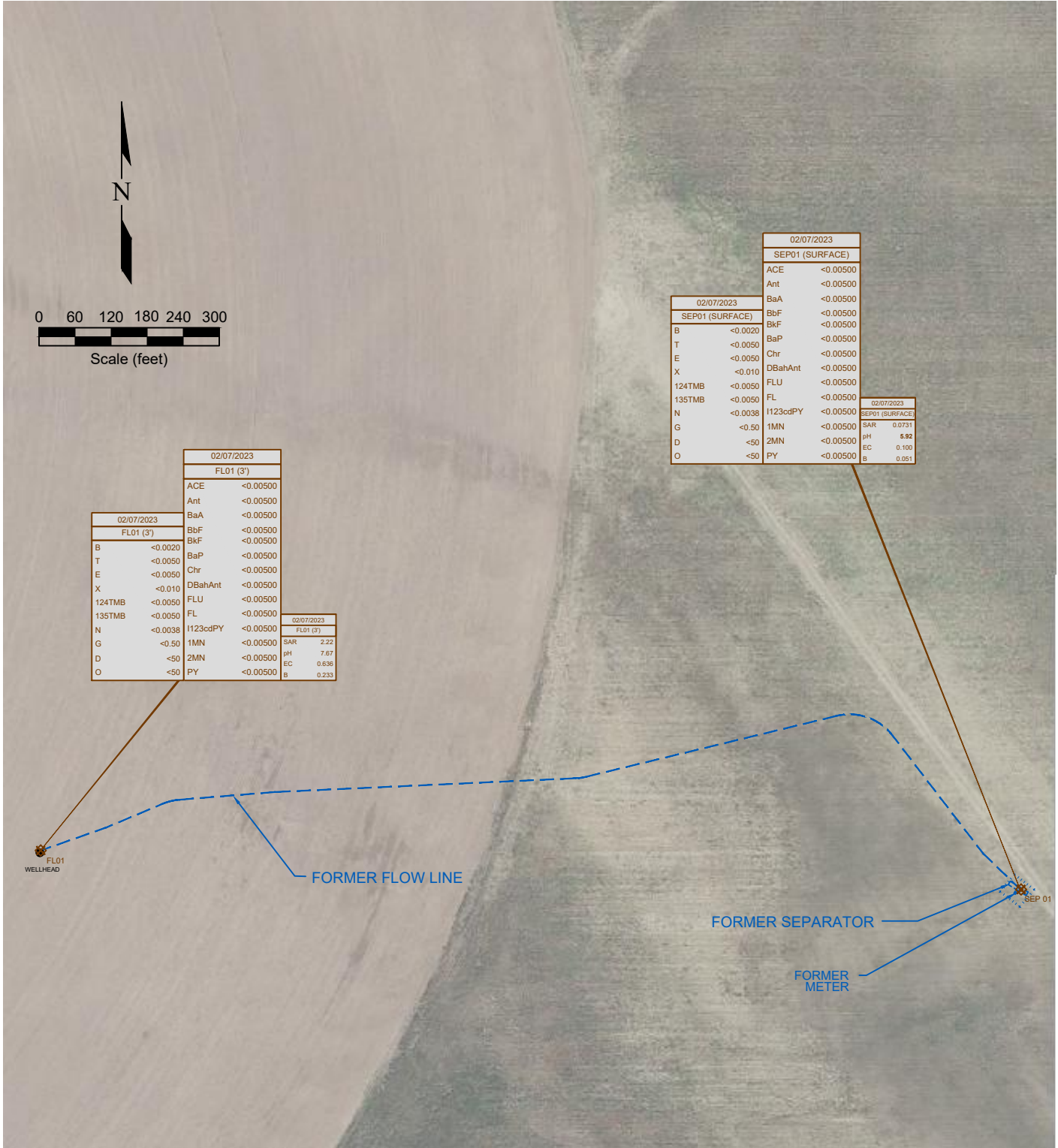
FL01 PID READING LOCATION IDENTIFICATION  
 PID 0.1 PHOTO IONIZATION DETECTION (ppm)

**Figure 2  
 SITE MAP**

**NOBLE ENERGY INC - LAND 31-13**  
 SWNE Sec. 31, T4N, R65W, 6th PM  
 Weld County, Colorado  
 40.270555°, -104.704003°

Project No. <b>CO23-031</b>	API # <b>05-123-16009</b>	Facility #
Date <b>08/05/2023</b>	Remediation # <b>25478</b>	Filename <b>23031QFL</b>





02/07/2023		02/07/2023		02/07/2023	
FL01 (3')		FL01 (3')		FL01 (3')	
ACE	<0.00500	ACE	<0.00500	SAR	2.22
Ant	<0.00500	Ant	<0.00500	pH	7.67
BaA	<0.00500	BaA	<0.00500	EC	0.636
BbF	<0.00500	BbF	<0.00500	B	0.233
BkF	<0.00500	BkF	<0.00500		
BaP	<0.00500	BaP	<0.00500		
Chr	<0.00500	Chr	<0.00500		
DBahAnt	<0.00500	DBahAnt	<0.00500		
FLU	<0.00500	FLU	<0.00500		
FL	<0.00500	FL	<0.00500		
N	<0.0038	I123cdPY	<0.00500		
G	<0.50	1MN	<0.00500		
D	<50	2MN	<0.00500		
O	<50	PY	<0.00500		

02/07/2023		02/07/2023		02/07/2023	
SEP01 (SURFACE)		SEP01 (SURFACE)		SEP01 (SURFACE)	
ACE	<0.00500	ACE	<0.00500	SAR	0.0731
Ant	<0.00500	Ant	<0.00500	pH	5.92
BaA	<0.00500	BaA	<0.00500	EC	0.100
BbF	<0.00500	BbF	<0.00500	B	0.051
BkF	<0.00500	BkF	<0.00500		
BaP	<0.00500	BaP	<0.00500		
Chr	<0.00500	Chr	<0.00500		
DBahAnt	<0.00500	DBahAnt	<0.00500		
FLU	<0.00500	FLU	<0.00500		
FL	<0.00500	FL	<0.00500		
N	<0.0038	I123cdPY	<0.00500		
G	<0.50	1MN	<0.00500		
D	<50	2MN	<0.00500		
O	<50	PY	<0.00500		

**LEGEND**

- WELLHEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER FLOW LINE
- FLOW LINE CONTAINMENT BERM

12/16/2022	DATE SAMPLED	12/16/2022	DATE SAMPLED	12/16/2022	DATE SAMPLED
FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID and DEPTH (ft)	SEP01 (SURFACE)	SAMPLE ID & DEPTH (ft)
ACE	<0.00500	B	<0.00500	BEN	0.002
ACENAPHTHENE (mg/kg)		T	<0.00500	BEN	0.002
ANTHRACENE (mg/kg)		E	<0.00500	TOLUENE (mg/kg)	0.004
BENZO (A) ANTHRACENE (mg/kg)		X	<0.010	ETHYLBENZENE (mg/kg)	0.001
BENZO (B) FLUORANTHENE (mg/kg)		124TMB	<0.00500	TOTAL XYLENES (mg/kg)	
BENZO (K) FLUORANTHENE(mg/kg)		135TMB	<0.00500	1,2,4-TRIMETHYLBENZENE (mg/kg)	
BENZO (A) PYRENE (mg/kg)		N	<0.0038	1,3,5-TRIMETHYLBENZENE (mg/kg)	[N/A]
CHRYSENE (mg/kg)		G	<0.50	NAPHTHALENE (mg/kg)	
DIBENZ(A,H) ANTHRACENE (mg/kg)		D	<50	TPH-GRO (mg/kg)	
FLUORANTHENE (mg/kg)		O	<50	TPH-DRO (mg/kg)	
FLUORENE (mg/kg)				TPH-ORO (mg/kg)	
INDENO (1,2,3-CD) PYRENE(mg/kg)					
1-METHYLNAPHTHALENE (mg/kg)					
2-METHYLNAPHTHALENE (mg/kg)					
PYRENE (mg/kg)					

Figure 3  
**SOIL CHEMISTRY MAP**

**NOBLE ENERGY INC - LAND 31-13**  
 SWNE Sec. 31, T4N, R65W, 6th PM  
 Weld County, Colorado  
 40.270555°, -104.704003°

Project No. <b>CO23-031</b>	API # <b>05-123-16009</b>	Facility #	
Date <b>08/05/2023</b>	Remediation # <b>25478</b>	Filename <b>23031Q</b>	

Photo Log



Description:

1 - Land 31-13 FL01 bellhole, looking W

Photo Log



Description:

2 - Land 31-13 FL03 bellhole, looking W

Photo Log



Description:

3 - Land 31-13 FL05 bellhole, looking E

Photo Log



Description:

4 - Land 31-13 FL06 bellhole (flowline sweep), looking E

Photo Log



Description:

5 - Land 31-13 FL07 bellhole, looking SE

Photo Log



Description:

6 - Land 31-13 flowline following removal from bellhole, looking E

Photo Log



Description:

7 - Land 31-13 flowline butt welded connections throughout

Photo Log



Description:

8 - Land 31-13 flowline close-up, good condition

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 14, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Land 31-13  
Work Order #2302121

Enclosed are the results of analyses for samples received by Summit Scientific on 02/07/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST CEN. SURF.	2302121-01	Soil	02/07/23 00:00	02/07/23 16:30
PWV FLOOR 3F	2302121-02	Soil	02/07/23 00:00	02/07/23 16:30
SEP 01 SURF.	2302121-03	Soil	02/07/23 00:00	02/07/23 16:30
FL01 3FT	2302121-04	Soil	02/07/23 00:00	02/07/23 16:30

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 (f)

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to: Dan

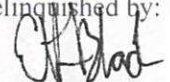
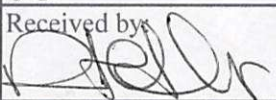
Phone:

Project Name: Noble-Land 31-13

Sampler Name: ED

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD	
1	AST CEN. SURF.	2/7/23		2			X			X				X	X	X					
2	DWV FLOOR 3FT	↓		↓																	
3	SEP OI SURF.	↓		↓																	
4	FLOI 3FT	↓		↓																	
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: 	Date/Time: 2/7/23	Received by: S2	Date/Time:	<b>Turn Around Time</b> (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: 7.9 Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by: S2	Date/Time: 2/7/23 1630	Received by: 	Date/Time: 2/7/23 1630		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2302121

Client: Fremont Client Project ID: Noble-Land 31-13

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

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

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>OUTSIDE</i>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AS  
Custodian Printed Name

2/7/23  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

**AST CEN. SURF.**

**2302121-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGB0195	02/08/23	02/09/23	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: **02/07/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0337	84.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0422	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0457	114 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGB0197	02/08/23	02/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	13.0	104 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

**AST CEN. SURF.**  
**2302121-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGB0192	02/08/23	02/09/23	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	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.00703</b>	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: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0252	75.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0266	79.9 %	40-150		"	"	"	"	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0674</b>	0.0100	mg/L	1	BGB0262	02/09/23	02/11/23	EPA 6020B	

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

Date Sampled: **02/07/23 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 - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

**AST CEN. SURF.**  
**2302121-01 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.9	0.0576	mg/L dry	1	BGB0225	02/08/23	02/10/23	EPA 6020B	
Magnesium	8.49	0.0576	"	"	"	"	"	"	
Sodium	7.71	0.0576	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.317	0.00100	units	1	BGB0377	02/13/23	02/13/23	Calculation	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BGB0366	02/13/23	02/13/23	Calculation	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.374	0.0100	mmhos/cm	1	BGB0274	02/09/23	02/09/23	EPA 120.1	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.46		pH Units	1	BGB0275	02/09/23	02/09/23	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

**PWV FLOOR 3F**  
**2302121-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGB0195	02/08/23	02/09/23	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: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0347	86.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0428	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0453	113 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGB0197	02/08/23	02/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.9	111 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

**PWV FLOOR 3F**  
**2302121-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGB0192	02/08/23	02/09/23	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: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0271	81.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0262	78.5 %	40-150		"	"	"	"	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0678</b>	0.0100	mg/L	1	BGB0262	02/09/23	02/11/23	EPA 6020B	

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

Date Sampled: **02/07/23 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 - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

**PWV FLOOR 3F**  
**2302121-02 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	69.7	0.0524	mg/L dry	1	BGB0225	02/08/23	02/10/23	EPA 6020B	
Magnesium	18.4	0.0524	"	"	"	"	"	"	
Sodium	8.40	0.0524	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.231	0.00100	units	1	BGB0377	02/13/23	02/13/23	Calculation	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BGB0366	02/13/23	02/13/23	Calculation	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0820	0.0100	mmhos/cm	1	BGB0274	02/09/23	02/09/23	EPA 120.1	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.07		pH Units	1	BGB0275	02/09/23	02/09/23	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

**SEP 01 SURE.**  
**2302121-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGB0195	02/08/23	02/09/23	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: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0345	86.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0432	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0463	116 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGB0197	02/08/23	02/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.95	71.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

**SEP 01 SURE.**  
**2302121-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGB0192	02/08/23	02/09/23	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: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0298	89.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0258	77.3 %	40-150		"	"	"	"	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0510</b>	0.0100	mg/L	1	BGB0262	02/09/23	02/11/23	EPA 6020B	

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

Date Sampled: **02/07/23 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 - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

**SEP 01 SURE.**  
**2302121-03 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	59.4	0.0557	mg/L dry	1	BGB0225	02/08/23	02/10/23	EPA 6020B	
Magnesium	15.7	0.0557	"	"	"	"	"	"	
Sodium	2.45	0.0557	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0731	0.00100	units	1	BGB0377	02/13/23	02/13/23	Calculation	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BGB0366	02/13/23	02/13/23	Calculation	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.100	0.0100	mmhos/cm	1	BGB0274	02/09/23	02/09/23	EPA 120.1	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.92		pH Units	1	BGB0275	02/09/23	02/09/23	EPA 9045D	

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

**FL01 3FT**  
**2302121-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGB0195	02/08/23	02/09/23	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: **02/07/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0344	85.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0463	116 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGB0197	02/08/23	02/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.51	68.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

**FL01 3FT**  
**2302121-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGB0192	02/08/23	02/09/23	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: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0252	75.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.8 %	40-150		"	"	"	"	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.233</b>	0.0100	mg/L	1	BGB0262	02/09/23	02/11/23	EPA 6020B	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

**FL01 3FT**  
**2302121-04 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.8	0.0554	mg/L dry	1	BGB0225	02/08/23	02/10/23	EPA 6020B	
Magnesium	6.80	0.0554	"	"	"	"	"	"	
Sodium	57.1	0.0554	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.22	0.00100	units	1	BGB0377	02/13/23	02/13/23	Calculation	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.2		%	1	BGB0366	02/13/23	02/13/23	Calculation	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.636	0.0100	mmhos/cm	1	BGB0274	02/09/23	02/09/23	EPA 120.1	

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

Date Sampled: **02/07/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BGB0275	02/09/23	02/09/23	EPA 9045D	

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Project: Noble - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

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

#### Summit Scientific

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

#### Batch BGB0195 - EPA 5030 Soil MS

##### Blank (BGB0195-BLK1)

Prepared: 02/08/23 Analyzed: 02/09/23

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0330</i>		<i>"</i>	<i>0.0400</i>		<i>82.4</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0463</i>		<i>"</i>	<i>0.0400</i>		<i>116</i>	<i>50-150</i>				

##### LCS (BGB0195-BS1)

Prepared: 02/08/23 Analyzed: 02/09/23

Benzene	0.109	0.0020	mg/kg	0.125		87.1	70-130				
Toluene	0.136	0.0050	"	0.125		109	70-130				
Ethylbenzene	0.141	0.0050	"	0.125		113	70-130				
m,p-Xylene	0.278	0.010	"	0.250		111	70-130				
o-Xylene	0.134	0.0050	"	0.125		107	70-130				
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.125		118	70-130				
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.125		121	70-130				
Naphthalene	0.0919	0.0038	"	0.125		73.5	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0346</i>		<i>"</i>	<i>0.0400</i>		<i>86.6</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0425</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>				

##### Matrix Spike (BGB0195-MS1)

Source: 2302120-21

Prepared: 02/08/23 Analyzed: 02/09/23

Benzene	0.109	0.0020	mg/kg	0.125	ND	86.9	70-130				
Toluene	0.139	0.0050	"	0.125	ND	111	70-130				
Ethylbenzene	0.141	0.0050	"	0.125	ND	113	70-130				
m,p-Xylene	0.281	0.010	"	0.250	ND	112	70-130				
o-Xylene	0.134	0.0050	"	0.125	ND	107	70-130				
1,2,4-Trimethylbenzene	0.150	0.0050	"	0.125	ND	120	70-130				
1,3,5-Trimethylbenzene	0.153	0.0050	"	0.125	ND	122	70-130				
Naphthalene	0.104	0.0038	"	0.125	ND	82.9	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0356</i>		<i>"</i>	<i>0.0400</i>		<i>89.1</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0424</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>				

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Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

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

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

**Batch BGB0195 - EPA 5030 Soil MS**

Matrix Spike Dup (BGB0195-MSD1)	Source: 2302120-21			Prepared: 02/08/23 Analyzed: 02/09/23					
Benzene	0.110	0.0020	mg/kg	0.125	ND	87.9	70-130	1.13	30
Toluene	0.142	0.0050	"	0.125	ND	113	70-130	2.14	30
Ethylbenzene	0.142	0.0050	"	0.125	ND	113	70-130	0.786	30
m,p-Xylene	0.284	0.010	"	0.250	ND	113	70-130	1.12	30
o-Xylene	0.137	0.0050	"	0.125	ND	109	70-130	2.35	30
1,2,4-Trimethylbenzene	0.153	0.0050	"	0.125	ND	122	70-130	2.03	30
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125	ND	125	70-130	2.00	30
Naphthalene	0.113	0.0038	"	0.125	ND	90.7	70-130	9.04	30
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.3	50-150		
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150		
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	50-150		

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Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

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

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

**Batch BGB0197 - EPA 3550A**

**Blank (BGB0197-BLK1)**

Prepared & Analyzed: 02/08/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.5		"	12.5		116		30-150			

**LCS (BGB0197-BS1)**

Prepared & Analyzed: 02/08/23

C10-C28 (DRO)	423	50	mg/kg	500		84.6		70-130			
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.1		30-150			

**Matrix Spike (BGB0197-MS1)**

Source: 2302120-21

Prepared & Analyzed: 02/08/23

C10-C28 (DRO)	435	50	mg/kg	500	13.3	84.4		70-130			
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.0		30-150			

**Matrix Spike Dup (BGB0197-MSD1)**

Source: 2302120-21

Prepared & Analyzed: 02/08/23

C10-C28 (DRO)	401	50	mg/kg	500	13.3	77.6		70-130	8.09	20	
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.5		30-150			

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Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

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

**Summit Scientific**

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

**Batch BGB0192 - EPA 5030 Soil MS**

**Blank (BGB0192-BLK1)**

Prepared & Analyzed: 02/08/23

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	0.0244		"	0.0333		73.3	40-150			
Surrogate: Fluoranthene-d10	0.0298		"	0.0333		89.3	40-150			

**LCS (BGB0192-BS1)**

Prepared & Analyzed: 02/08/23

Acenaphthene	0.0294	0.00500	mg/kg	0.0333		88.1	31-137			
Anthracene	0.0293	0.00500	"	0.0333		87.9	30-120			
Benzo (a) anthracene	0.0281	0.00500	"	0.0333		84.4	30-120			
Benzo (a) pyrene	0.0265	0.00500	"	0.0333		79.6	30-120			
Benzo (b) fluoranthene	0.0262	0.00500	"	0.0333		78.7	30-120			
Benzo (k) fluoranthene	0.0267	0.00500	"	0.0333		80.2	30-120			
Chrysene	0.0276	0.00500	"	0.0333		82.8	30-120			
Dibenz (a,h) anthracene	0.0215	0.00500	"	0.0333		64.4	30-120			
Fluoranthene	0.0301	0.00500	"	0.0333		90.3	30-120			
Fluorene	0.0298	0.00500	"	0.0333		89.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333		67.6	30-120			
Pyrene	0.0298	0.00500	"	0.0333		89.3	35-142			
1-Methylnaphthalene	0.0284	0.00500	"	0.0333		85.3	35-142			
2-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0268		"	0.0333		80.4	40-150			
Surrogate: Fluoranthene-d10	0.0302		"	0.0333		90.7	40-150			

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Project: Noble - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

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

**Summit Scientific**

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

**Batch BGB0192 - EPA 5030 Soil MS**

<b>Matrix Spike (BGB0192-MS1)</b>	<b>Source: 2302112-01</b>			<b>Prepared &amp; Analyzed: 02/08/23</b>									
Acenaphthene	0.0393	0.00500	mg/kg	0.0333	ND	118	31-137						
Anthracene	0.0236	0.00500	"	0.0333	ND	70.8	30-120						
Benzo (a) anthracene	0.0222	0.00500	"	0.0333	0.00169	61.5	30-120						
Benzo (a) pyrene	0.0224	0.00500	"	0.0333	0.00281	58.9	30-120						
Benzo (b) fluoranthene	0.0281	0.00500	"	0.0333	0.00573	67.0	30-120						
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	30-120						
Chrysene	0.0638	0.00500	"	0.0333	0.0216	127	30-120						QM-01
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120						
Fluoranthene	0.0358	0.00500	"	0.0333	ND	107	30-120						
Fluorene	0.0277	0.00500	"	0.0333	0.00348	72.6	30-120						
Indeno (1,2,3-cd) pyrene	0.0224	0.00500	"	0.0333	0.00385	55.5	30-120						
Pyrene	0.0286	0.00500	"	0.0333	0.00387	74.3	35-142						
1-Methylnaphthalene	0.0715	0.00500	"	0.0333	0.0159	167	15-130						QM-01
2-Methylnaphthalene	0.0728	0.00500	"	0.0333	0.00949	190	15-130						QM-01
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0235</i>		"	<i>0.0333</i>		<i>70.4</i>	<i>40-150</i>						
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0275</i>		"	<i>0.0333</i>		<i>82.4</i>	<i>40-150</i>						

<b>Matrix Spike Dup (BGB0192-MSD1)</b>	<b>Source: 2302112-01</b>			<b>Prepared &amp; Analyzed: 02/08/23</b>									
Acenaphthene	0.0277	0.00500	mg/kg	0.0333	ND	83.0	31-137	34.7	30				QR-02
Anthracene	0.0239	0.00500	"	0.0333	ND	71.7	30-120	1.26	30				
Benzo (a) anthracene	0.0269	0.00500	"	0.0333	0.00169	75.6	30-120	19.1	30				
Benzo (a) pyrene	0.0265	0.00500	"	0.0333	0.00281	71.1	30-120	16.7	30				
Benzo (b) fluoranthene	0.0296	0.00500	"	0.0333	0.00573	71.6	30-120	5.31	30				
Benzo (k) fluoranthene	0.0222	0.00500	"	0.0333	ND	66.6	30-120	4.78	30				
Chrysene	0.0440	0.00500	"	0.0333	0.0216	67.1	30-120	36.8	30				QR-02
Dibenz (a,h) anthracene	0.0206	0.00500	"	0.0333	ND	61.9	30-120	8.86	30				
Fluoranthene	0.0315	0.00500	"	0.0333	ND	94.6	30-120	12.6	30				
Fluorene	0.0246	0.00500	"	0.0333	0.00348	63.3	30-120	11.8	30				
Indeno (1,2,3-cd) pyrene	0.0266	0.00500	"	0.0333	0.00385	68.4	30-120	17.5	30				
Pyrene	0.0261	0.00500	"	0.0333	0.00387	66.6	35-142	9.38	30				
1-Methylnaphthalene	0.0506	0.00500	"	0.0333	0.0159	104	15-130	34.2	50				
2-Methylnaphthalene	0.0347	0.00500	"	0.0333	0.00949	75.6	15-130	70.9	50				QR-02
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0277</i>		"	<i>0.0333</i>		<i>83.0</i>	<i>40-150</i>						
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0265</i>		"	<i>0.0333</i>		<i>79.6</i>	<i>40-150</i>						

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Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

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

**Summit Scientific**

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

**Batch BGB0262 - EPA 3050B**

**Blank (BGB0262-BLK1)**

Prepared: 02/09/23 Analyzed: 02/10/23

Boron ND 0.0100 mg/L

**LCS (BGB0262-BS1)**

Prepared: 02/09/23 Analyzed: 02/10/23

Boron 5.03 0.0100 mg/L 5.00 101 80-120

**Duplicate (BGB0262-DUP1)**

Source: 2302057-01

Prepared: 02/09/23 Analyzed: 02/10/23

Boron 0.421 0.0100 mg/L 0.407 3.50 20

**Matrix Spike (BGB0262-MS1)**

Source: 2302057-01

Prepared: 02/09/23 Analyzed: 02/10/23

Boron 5.14 0.0100 mg/L 5.00 0.407 94.7 75-125

**Matrix Spike Dup (BGB0262-MSD1)**

Source: 2302057-01

Prepared: 02/09/23 Analyzed: 02/10/23

Boron 5.14 0.0100 mg/L 5.00 0.407 94.7 75-125 0.0204 25

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Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

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

**Summit Scientific**

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

**Batch BGB0225 - General Preparation**

**Blank (BGB0225-BLK1)**

Prepared: 02/08/23 Analyzed: 02/10/23

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

**LCS (BGB0225-BS1)**

Prepared: 02/08/23 Analyzed: 02/10/23

Calcium	4.59	0.0500	mg/L wet	5.00	91.8	70-130				
Magnesium	5.25	0.0500	"	5.00	105	70-130				
Sodium	5.05	0.0500	"	5.00	101	70-130				

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Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

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

**Summit Scientific**

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

**Batch BGB0366 - General Preparation**

**Duplicate (BGB0366-DUP1)**

**Source: 2302121-01**

Prepared & Analyzed: 02/13/23

% Solids	98.4		%		86.9			12.4	20	
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Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

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

**Summit Scientific**

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

**Batch BGB0274 - General Preparation**

**Blank (BGB0274-BLK1)**

Prepared & Analyzed: 02/09/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGB0274-BS1)**

Prepared & Analyzed: 02/09/23

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

**Duplicate (BGB0274-DUP1)**

Source: 2302121-01

Prepared & Analyzed: 02/09/23

Specific Conductance (EC) 0.366 0.0100 mmhos/cm 0.374 2.30 20

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/14/23 10:45

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

**Summit Scientific**

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

**Batch BGB0275 - General Preparation**

**LCS (BGB0275-BS1)**

Prepared & Analyzed: 02/09/23

pH 9.13 pH Units 9.18 99.5 95-105

**Duplicate (BGB0275-DUP1)**

Source: 2302121-01

Prepared & Analyzed: 02/09/23

pH 6.71 pH Units 6.46 3.80 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Land 31-13

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/14/23 10:45

### Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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