

# **FREMONT ENVIRONMENTAL INC.**

May 24, 2023

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

Subject:           **Flowline Closure Data Submittal**  
Herbst 1-22-4-64 Flowline  
API # 05-123-10933  
NESE Sec. 22, T4N, R64W  
Weld County, Colorado  
Fremont Project No. C023-066  
Remediation # 21809

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline abandonment activities at the Noble Energy Inc. (Noble) Herbst 1-22-4-64 Flowline. The soil sample 1-22-4-64 FL01@5' was reported with a pH slightly above the regulatory limit. Details of the flowline abandonment activities are documented in the attached Closure Report. Groundwater was not encountered during decommissioning activities.

Please contact me at (970) 213-7488 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Chris Lattes  
Consultant

Attachments:

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

# 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> HERBST 1-22-4-64		<i>Date:</i> 3/1/2023		<i>Remediation Project #:</i> 21809				
<i>Associated Wells:</i> 05-123-10933		<i>Age of Site:</i> Unknown		<i>Number of Photos Attached:</i> See attached				
<i>Starting point: (GPS coordinates and descriptions)</i> 40.296263, -104.529808								
<i>End point: (GPS coordinates and descriptions)</i> 40.294775, -104.529149								
<i>USCS Soil Type:</i> Silt with Clay (ML)				<i>Estimated Depth to Groundwater:</i> Unknown				
<i>Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i> <b>No observed hydrocarbon impacted soil or spills.</b>								
<i>Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i> <b>No observed salt crusted soil or vegetation.</b>								
Flowlines								
<i>Flowline type</i>	Wellhead Line							
<i>Depth</i>	4-5'							
<i>Age</i>	Unknown							
<i>Length</i>	571							
<i>Construction Material</i>	2" Steel							
<i>Were flowlines pulled?</i>	Yes							
<i>Visual Integrity of lines</i>	Good Condition							
<i>Visual impacts if trenched</i>	None observed							
<i>PID Readings if trenched</i>	0-9.4 ppm							
<i>Sample taken? Location/Sample ID#</i>	See attached figure							
<i>Photo Number(s)</i>	See attached							
<i>Other observations regarding on location flowlines:</i>								
Summary								
<i>Was impacted soil identified?</i> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards								
<i>Total number of samples field screened:</i> 7				<i>Total number of samples collected:</i> 7				
<i>Highest PID Reading:</i> 9.4 ppm				<i>Total number of samples submitted to lab for analysis:</i> 2				
<i>If more than 10 cubic yards of impacted soil were observed:</i> N/A								
<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> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils								
<i>Measured depth to groundwater:</i>				<i>Was remedial groundwater removal conducted?</i> Yes <input type="checkbox"/> No <input type="checkbox"/>				
<i>Date Groundwater was encountered:</i>				<i>Commencement date of removal:</i>				
<i>Sheen on groundwater?</i>		<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<i>Volume of groundwater removed prior to sampling:</i>		
<i>Free product observed?</i>		<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<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.  
HERBST 1-22-4-64, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-066

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**		
1-22-04-64 FL01@5'	03/02/2023	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP04@4'	03/01/2023	4'	<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.  
HERBST 1-22-4-64, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C023-066

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
1-22-04-64 FL01@5'	03/02/2023	5'	<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
SEP04@4'	03/01/2023	4'	<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.**  
**HERBST 1-22-4-64, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-066**

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
1-22-04-64 FL01@5'	03/02/2023	5'	<b>8.35</b>	0.423	3.28	0.515
SEP04@4'	03/01/2023	4'	7.86	3.770	1.8	1.520

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

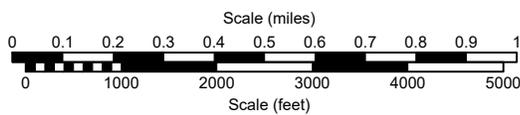
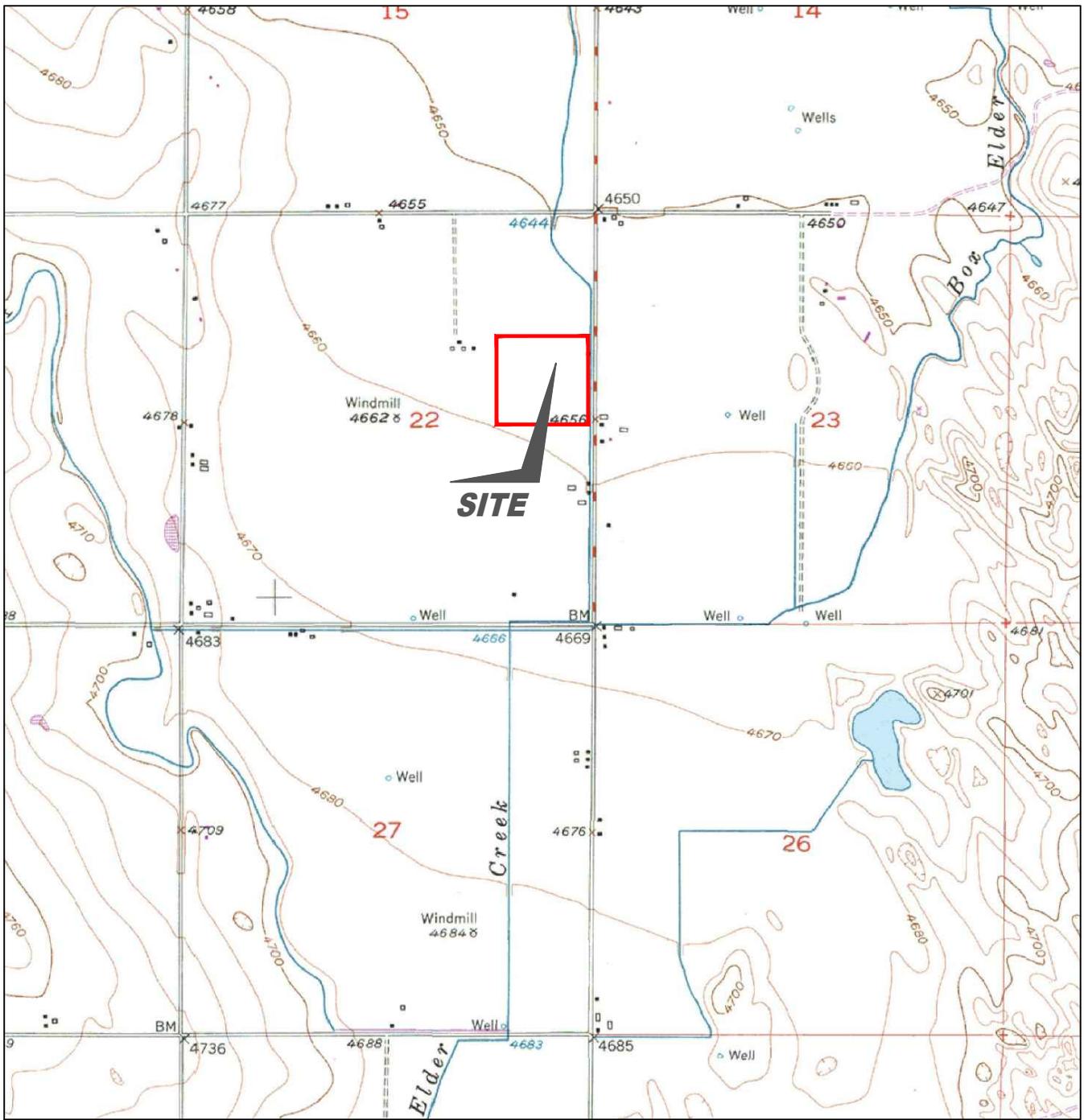
**TABLE 4**  
**SUMMARY OF POTHOLE FIELD OBSERVATIONS**  
**NOBLE ENERGY, INC.**  
**HERBST 1-22-4-64, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-066**

Location	Latitude	Longitude	PID Reading	Field Observations
1-22-4-64 FL01@5'	40.296263	-104.529808	0.2	No suspected impacts.
1-22-4-64 FL02@5'	40.295972	-104.52976	1.1	No suspected impacts.
1-22-4-64 FL03@5'	40.295757	-104.52964	0.3	No suspected impacts.
1-22-4-64 FL04@4'	40.295557	-104.529542	0.0	No suspected impacts.
1-22-4-64 FL05@5'	40.295353	-104.529441	0.3	No suspected impacts.
1-22-4-64 FL05@4'	40.29497	-104.52924	0.1	No suspected impacts.
SEP04@4'	40.294775	-104.529149	9.4	No suspected impacts.

**TABLE 5**  
**SUMMARY OF FLOW LINE CONDITION**  
**NOBLE ENERGY, INC.**  
**HERBST 1-22-4-64, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C023-066**

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
1-22-4-64 FL01@5'	1-22-4-64 FL02@5'	107	2" steel, good condition.
1-22-4-64 FL02@5'	1-22-4-64 FL03@5'	85	2" steel, good condition.
1-22-4-64 FL03@5'	1-22-4-64 FL04@4'	76	2" steel, good condition.
1-22-4-64 FL04@4'	1-22-4-64 FL05@5'	79	2" steel, good condition.
1-22-4-64 FL05@5'	1-22-4-64 FL05@4'	150	2" steel, good condition.
1-22-4-64 FL05@4'	SEP04@4'	74	2" steel, good condition.

571      Total linear feet of flow line



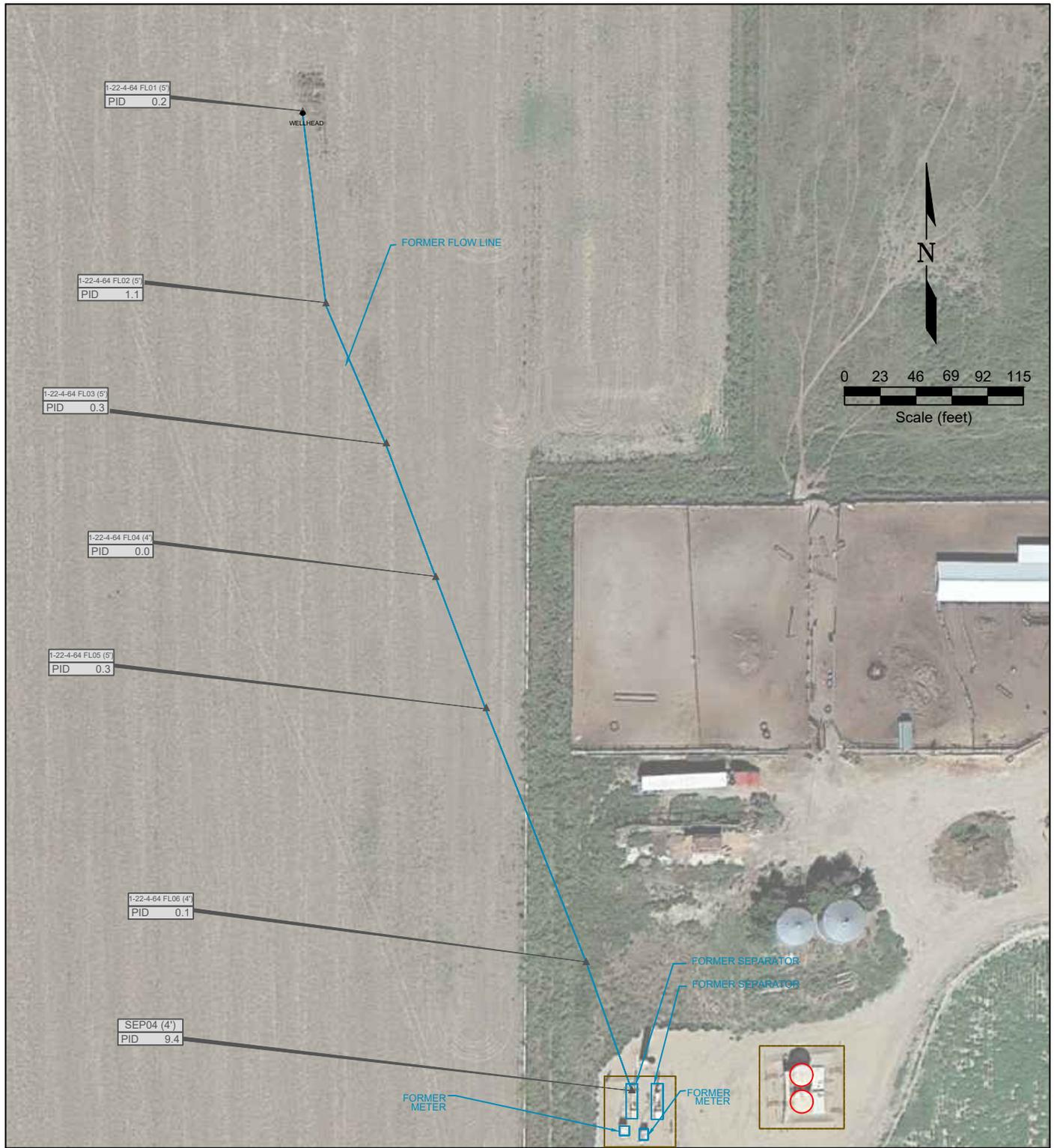
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**NOBLE ENERGY INC - HERBST 1-22-4-64**  
 NESE Sec. 22, T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.296279°, -104.529783°

Project # <b>CO23-066</b>	API # <b>05-123-10933</b>	Facility #
Date <b>7/29/23</b>	Remediation # <b>21809</b>	Filename <b>23066T</b>





**LEGEND**

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

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

**Figure 2  
 SITE MAP**

**NOBLE ENERGY INC - HERBST 1-22-4-64**  
 NESE Sec. 22, T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.296279°, -104.529783°

Project # <b>CO23-066</b>	API # <b>05-123-10933</b>	Facility #
Date <b>7/29/23</b>	Remediation # <b>21809</b>	Filename <b>23066Q</b>





# Photo Log



### Description:

SEP04@4'

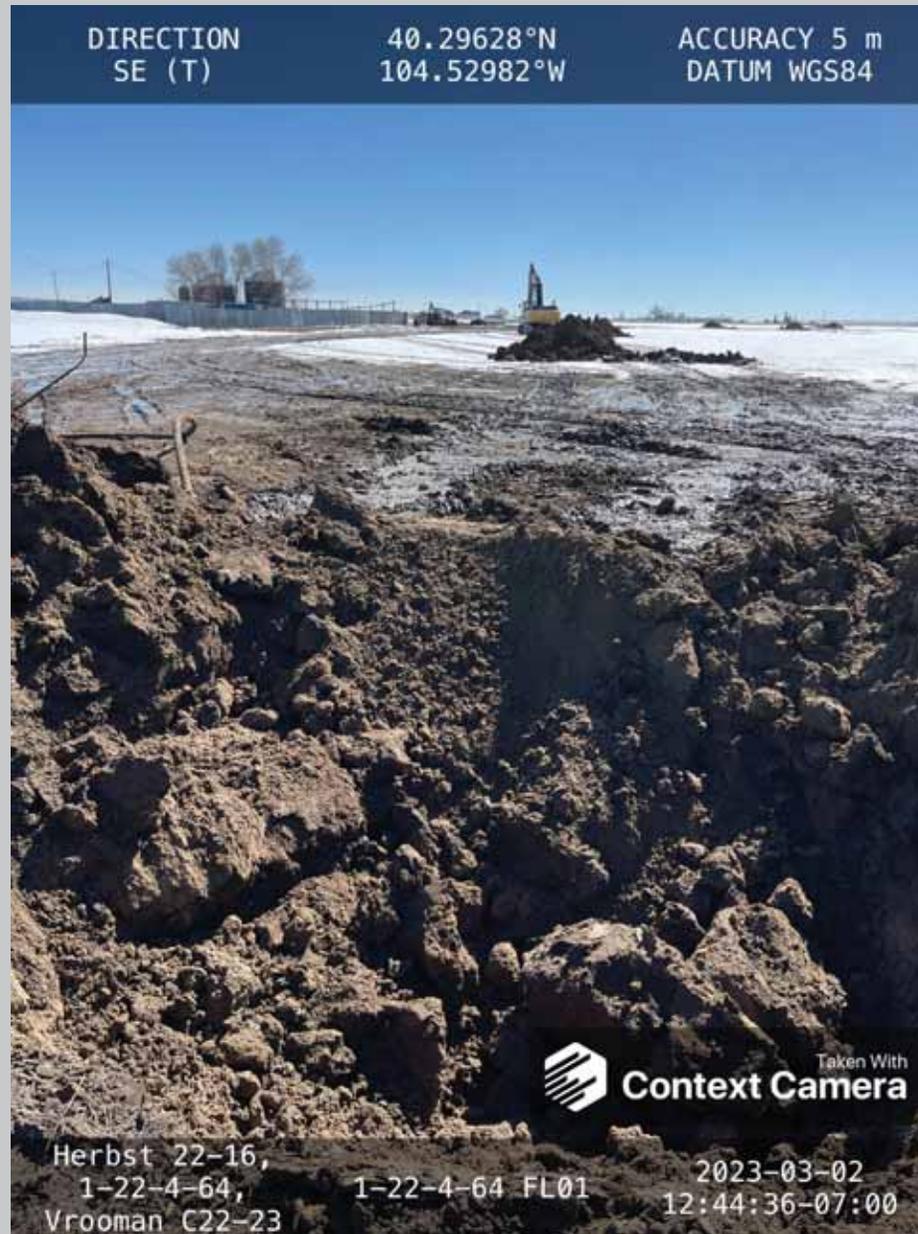
# Photo Log



**Description:**

Herbst 1-22-4-64 Wellhead Placard

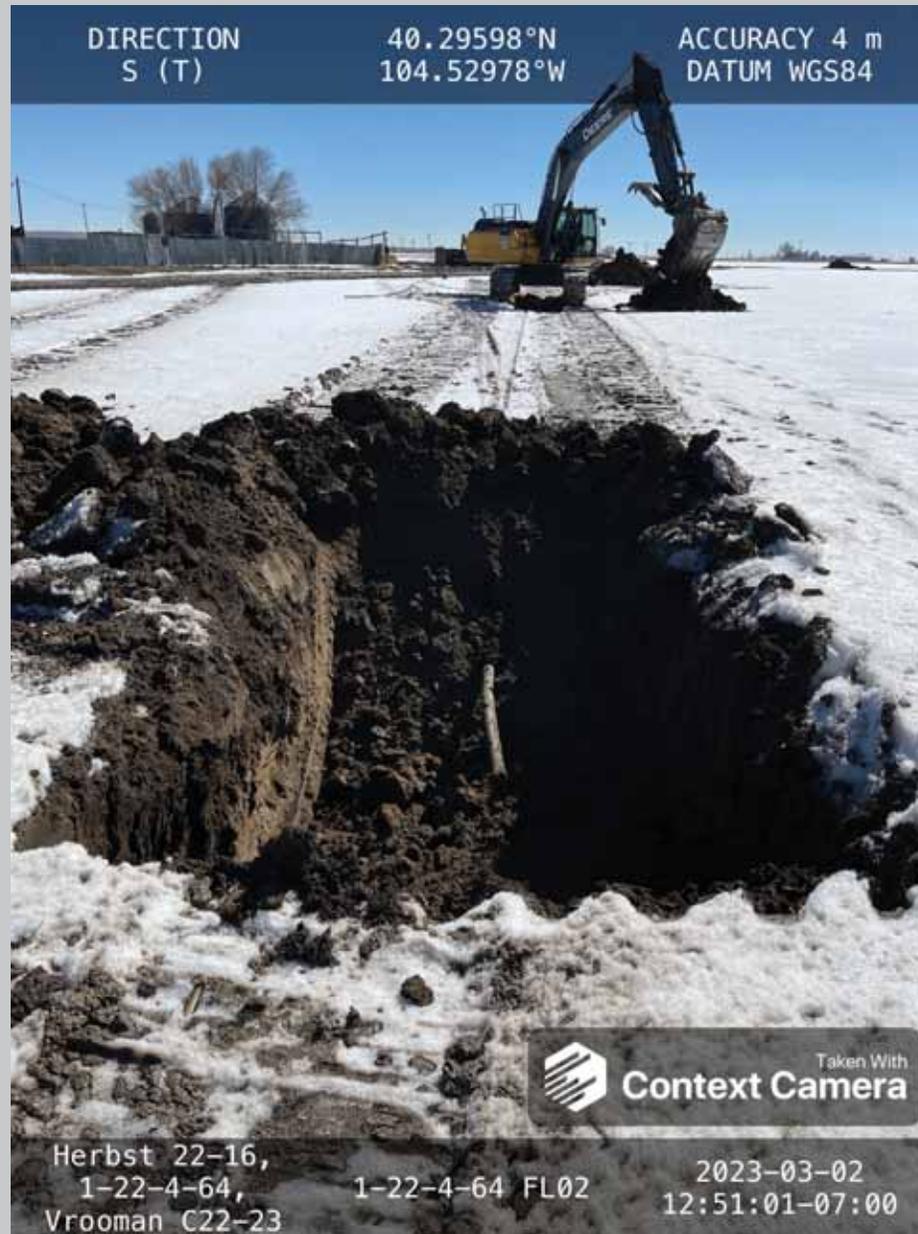
# Photo Log



**Description:**

1-22-4-64 FL01@5'

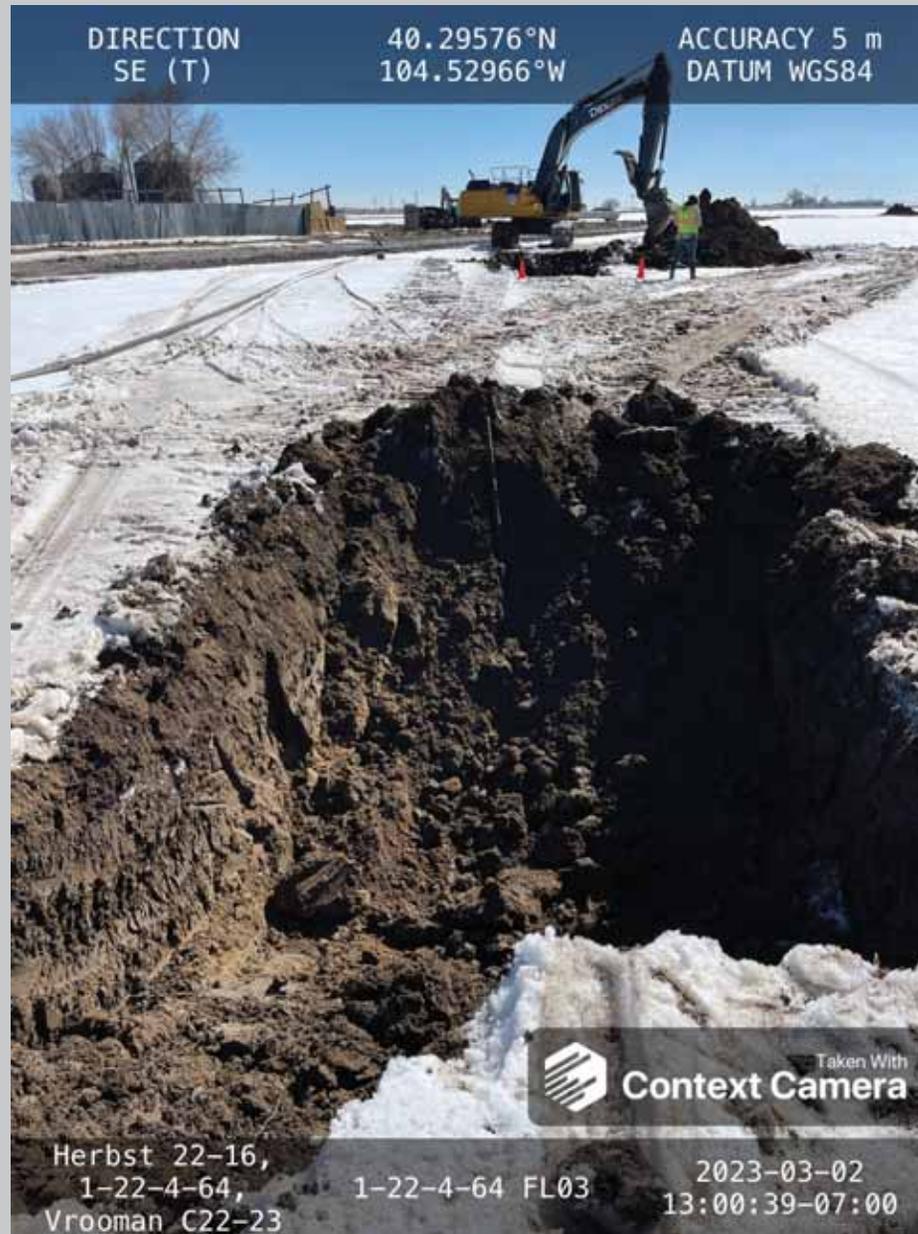
# Photo Log



**Description:**

1-22-4-64 FL02@5'

# Photo Log



**Description:**

1-22-4-64 FL03@5'

# Photo Log



**Description:**

1-22-4-64 FL04@4'

# Photo Log



### Description:

1-22-4-64 FL05@5'

# Photo Log



**Description:**

1-22-4-64 FL06@4'

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 20, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Herbst 1-22-04-64  
Work Order #2303239

Enclosed are the results of analyses for samples received by Summit Scientific on 03/09/23 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 - Herbst 1-22-04-64

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:50

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1-22-04-64 FL01@5'	2303239-01	Soil	03/02/23 00:00	03/09/23 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

2303239

S<sub>2</sub>

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

Page 1 of 1

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 Noble

Phone:

Project Name: Herbst 1-22-04-64

Sampler Name: Chris Lattes

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	TPH, BTEX, TMS, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD			
1	1-22-04-64 FL01@S'	3/2/23		2			X			X			X	X	X						
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes: FL
Chris Lattes	3/9/23 11:45	SL	3/9/23 11:45	Same Day	72 hours	
				24 hours	Standard	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours		
SL	3/9/23 1630	[Signature]	3/9/23 1630			
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
				Temperature Upon Receipt:	7.6	
				Samples Intact:	Yes No	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# Z303239

Client: Fremont Client Project ID: Herbst 1-22-04-004

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

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

Temp (°C) 7.0 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? 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"/>	
<u>Additional Comments (if any):</u>				

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

OS  
Custodian Printed Name

3/9/23 1630  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:50

**1-22-04-64 FL01@5'**  
**2303239-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGC0336	03/13/23	03/14/23	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: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGC0339	03/13/23	03/14/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.1	112 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 - Herbst 1-22-04-64

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:50

**1-22-04-64 FL01@5'**  
**2303239-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	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: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0251	75.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.6 %	40-150		"	"	"	"	

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

Date Sampled: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.515</b>	0.0100	mg/L	1	BGC0458	03/15/23	03/18/23	EPA 6020B	

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

Date Sampled: **03/02/23 00:00**

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:50

**1-22-04-64 FL01@5'**  
**2303239-01 (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	10.4	0.0611	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	3.59	0.0611	"	"	"	"	"	"	
Sodium	48.1	0.0611	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.28	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

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

Date Sampled: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.9		%	1	BGC0311	03/10/23	03/13/23	Calculation	

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

Date Sampled: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.423	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:50

### 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 BGC0336 - EPA 5030 Soil MS

##### Blank (BGC0336-BLK1)

Prepared & Analyzed: 03/13/23

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.4	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	50-150			

##### LCS (BGC0336-BS1)

Prepared: 03/13/23 Analyzed: 03/14/23

Benzene	0.0909	0.0020	mg/kg	0.125		72.7	70-130			
Toluene	0.105	0.0050	"	0.125		83.7	70-130			
Ethylbenzene	0.133	0.0050	"	0.125		107	70-130			
m,p-Xylene	0.267	0.010	"	0.250		107	70-130			
o-Xylene	0.124	0.0050	"	0.125		99.1	70-130			
1,2,4-Trimethylbenzene	0.146	0.0050	"	0.125		117	70-130			
1,3,5-Trimethylbenzene	0.146	0.0050	"	0.125		117	70-130			
Naphthalene	0.0997	0.0038	"	0.125		79.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

##### Matrix Spike (BGC0336-MS1)

Source: 2303235-01

Prepared: 03/13/23 Analyzed: 03/14/23

Benzene	0.0905	0.0020	mg/kg	0.125	ND	72.4	70-130			
Toluene	0.106	0.0050	"	0.125	ND	84.9	70-130			
Ethylbenzene	0.134	0.0050	"	0.125	ND	107	70-130			
m,p-Xylene	0.265	0.010	"	0.250	ND	106	70-130			
o-Xylene	0.126	0.0050	"	0.125	ND	101	70-130			
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.125	ND	118	70-130			
1,3,5-Trimethylbenzene	0.146	0.0050	"	0.125	ND	117	70-130			
Naphthalene	0.110	0.0038	"	0.125	ND	88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

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Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:50

**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 BGC0336 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGC0336-MSD1)</b>	<b>Source: 2303235-01</b>			<b>Prepared: 03/13/23 Analyzed: 03/14/23</b>						
Benzene	0.0899	0.0020	mg/kg	0.125	ND	71.9	70-130	0.732	30	
Toluene	0.106	0.0050	"	0.125	ND	84.5	70-130	0.482	30	
Ethylbenzene	0.139	0.0050	"	0.125	ND	111	70-130	3.94	30	
m,p-Xylene	0.275	0.010	"	0.250	ND	110	70-130	3.60	30	
o-Xylene	0.128	0.0050	"	0.125	ND	103	70-130	1.91	30	
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.125	ND	118	70-130	0.102	30	
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.125	ND	120	70-130	3.28	30	
Naphthalene	0.106	0.0038	"	0.125	ND	85.2	70-130	3.52	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

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Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:50

**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 BGC0339 - EPA 3550A**

**Blank (BGC0339-BLK1)**

Prepared & Analyzed: 03/13/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		118		30-150			

**LCS (BGC0339-BS1)**

Prepared & Analyzed: 03/13/23

C10-C28 (DRO)	580	50	mg/kg	500		116		70-130			
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5		114		30-150			

**Matrix Spike (BGC0339-MS1)**

Source: 2303235-01

Prepared & Analyzed: 03/13/23

C10-C28 (DRO)	509	50	mg/kg	500	13.0	99.2		70-130			
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		98.8		30-150			

**Matrix Spike Dup (BGC0339-MSD1)**

Source: 2303235-01

Prepared & Analyzed: 03/13/23

C10-C28 (DRO)	510	50	mg/kg	500	13.0	99.3		70-130	0.118	20	
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.3		30-150			

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Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:50

**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 BGC0300 - EPA 5030 Soil MS**

**Blank (BGC0300-BLK1)**

Prepared: 03/10/23 Analyzed: 03/13/23

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0254</i>		"	<i>0.0333</i>		<i>76.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0443</i>		"	<i>0.0333</i>		<i>133</i>	<i>40-150</i>			

**LCS (BGC0300-BS1)**

Prepared: 03/10/23 Analyzed: 03/13/23

Acenaphthene	0.0357	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0344	0.00500	"	0.0333	103	30-120
Benzo (a) anthracene	0.0325	0.00500	"	0.0333	97.6	30-120
Benzo (a) pyrene	0.0300	0.00500	"	0.0333	89.9	30-120
Benzo (b) fluoranthene	0.0338	0.00500	"	0.0333	101	30-120
Benzo (k) fluoranthene	0.0365	0.00500	"	0.0333	109	30-120
Chrysene	0.0314	0.00500	"	0.0333	94.3	30-120
Dibenz (a,h) anthracene	0.0300	0.00500	"	0.0333	90.1	30-120
Fluoranthene	0.0345	0.00500	"	0.0333	103	30-120
Fluorene	0.0343	0.00500	"	0.0333	103	30-120
Indeno (1,2,3-cd) pyrene	0.0306	0.00500	"	0.0333	91.8	30-120
Pyrene	0.0363	0.00500	"	0.0333	109	35-142
1-Methylnaphthalene	0.0344	0.00500	"	0.0333	103	35-142
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	67.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0393</i>		"	<i>0.0333</i>	<i>118</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0343</i>		"	<i>0.0333</i>	<i>103</i>	<i>40-150</i>

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Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:50

**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 BGC0300 - EPA 5030 Soil MS**

**Matrix Spike (BGC0300-MS1)**

Source: 2303046-01

Prepared: 03/10/23 Analyzed: 03/13/23

Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.6	31-137			
Anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120			
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	ND	65.1	30-120			
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.5	30-120			
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.7	30-120			
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120			
Chrysene	0.0181	0.00500	"	0.0333	ND	54.3	30-120			
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Fluoranthene	0.0213	0.00500	"	0.0333	ND	63.8	30-120			
Fluorene	0.0208	0.00500	"	0.0333	ND	62.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.5	30-120			
Pyrene	0.0217	0.00500	"	0.0333	ND	65.0	35-142			
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130			
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.5	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0248		"	0.0333		74.4	40-150			
Surrogate: Fluoranthene-d10	0.0249		"	0.0333		74.8	40-150			

**Matrix Spike Dup (BGC0300-MSD1)**

Source: 2303046-01

Prepared: 03/10/23 Analyzed: 03/13/23

Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.6	31-137	0.0236	30
Anthracene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	0.548	30
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	0.0445	30
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	13.9	30
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	0.723	30
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	0.399	30
Chrysene	0.0183	0.00500	"	0.0333	ND	54.9	30-120	1.07	30
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	5.43	30
Fluoranthene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	2.57	30
Fluorene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	0.351	30
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	2.56	30
Pyrene	0.0223	0.00500	"	0.0333	ND	67.0	35-142	3.05	30
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	65.9	15-130	13.3	50
2-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.2	15-130	1.36	50
Surrogate: 2-Methylnaphthalene-d10	0.0267		"	0.0333		80.1	40-150		
Surrogate: Fluoranthene-d10	0.0245		"	0.0333		73.6	40-150		

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Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:50

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

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

**Batch BGC0458 - EPA 3050B**

**Blank (BGC0458-BLK1)**

Prepared: 03/15/23 Analyzed: 03/18/23

Boron ND 0.0100 mg/L

**LCS (BGC0458-BS1)**

Prepared: 03/15/23 Analyzed: 03/18/23

Boron 4.91 0.0100 mg/L 5.00 98.3 80-120

**Duplicate (BGC0458-DUP1)**

Source: 2303234-06

Prepared: 03/15/23 Analyzed: 03/18/23

Boron 0.467 0.0100 mg/L 0.483 3.27 20

**Matrix Spike (BGC0458-MS1)**

Source: 2303234-06

Prepared: 03/15/23 Analyzed: 03/18/23

Boron 4.96 0.0100 mg/L 5.00 0.483 89.5 75-125

**Matrix Spike Dup (BGC0458-MSD1)**

Source: 2303234-06

Prepared: 03/15/23 Analyzed: 03/18/23

Boron 4.97 0.0100 mg/L 5.00 0.483 89.8 75-125 0.274 25

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Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:50

**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 BGC0438 - General Preparation**

**Blank (BGC0438-BLK1)**

Prepared: 03/15/23 Analyzed: 03/18/23

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

**LCS (BGC0438-BS1)**

Prepared: 03/15/23 Analyzed: 03/18/23

Calcium	5.74	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.49	0.0500	"	5.00		110	70-130			
Sodium	5.02	0.0500	"	5.00		100	70-130			

Summit Scientific

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Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:50

**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 BGC0311 - General Preparation**

<b>Duplicate (BGC0311-DUP1)</b>		<b>Source: 2303238-01</b>		Prepared: 03/10/23 Analyzed: 03/13/23	
% Solids	73.5	%		73.7	0.364 20

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Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:50

**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 BGC0494 - General Preparation**

**Blank (BGC0494-BLK1)**

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGC0494-BS1)**

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BGC0494-DUP1)**

Source: 2303229-01

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) 4.42 0.0100 mmhos/cm 4.51 2.04 20

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/20/23 12:50

**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 BGC0493 - General Preparation**

**LCS (BGC0493-BS1)**

Prepared: 03/16/23 Analyzed: 03/17/23

pH	9.08	pH Units	9.18	98.9	95-105
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**Duplicate (BGC0493-DUP1)**

Source: 2303229-01

Prepared: 03/16/23 Analyzed: 03/17/23

pH	7.82	pH Units	7.89	0.891	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Herbst 1-22-04-64

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/20/23 12:50

### Notes and Definitions

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

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 22, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Dechant State H36-19 Tank

Work Order #2303230

Enclosed are the results of analyses for samples received by Summit Scientific on 03/09/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@6"	2303230-01	Soil	03/01/23 00:00	03/09/23 16:30
AST02@6"	2303230-02	Soil	03/01/23 00:00	03/09/23 16:30
PWVS01@9'	2303230-03	Soil	03/01/23 00:00	03/09/23 16:30
PWVB01@8'	2303230-04	Soil	03/01/23 00:00	03/09/23 16:30
SEP02@4'	2303230-05	Soil	03/01/23 00:00	03/09/23 16:30
SEP04@4'	2303230-06	Soil	03/01/23 00:00	03/09/23 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>

2303230

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 Noble  
 Phone: Project Name: Dechant State, H36-19 TANK  
 Sampler Name: Chris Lattes 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	TPH, BTEX, TMS, Napht.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD	
1	A5T01 @ 6"	3/1/23		2			X			X			X	X	X				
2	A5T02 @ 6"			2			X			X			X	X	X				
3	PWV301 @ 7'			2			X			X			X	X	X				
4	PWV301 @ 8'			2			X			X			X	X	X				
5	SEP02 @ 4'			2			X			X			X	X	X				
6	SEP04 @ 4'	3/1/23		2			X			X			X	X	X				
7																			
8																			
9																			
10																			

Relinquished by: Chris Lattes	Date/Time: 3/9/23 11:30	Received by: S2	Date/Time: 3/9/23 11:30	Turn Around Time (Check):	Notes:
Relinquished by: S2	Date/Time: 3/9/23 1030	Received by: [Signature]	Date/Time: 3/9/23 1030	Same Day _____ 72 hours	Associated w/ Herbst 22-16 FL Herbst 1-22-04-84 FL Vrooman C22-23 FL
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours _____ Standard <input checked="" type="checkbox"/>	
				48 hours _____	
				Sample Integrity: 7.0	
				Temperature Upon Receipt: 7.0	
				Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2303230

Client: Fremont Client Project ID: Dedham State H36-19 Tank

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> <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"/>	<i>none</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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

*LS*  
Custodian Printed Name

3/1/23 1630  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**AST01@6''  
2303230-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0290	03/10/23	03/11/23	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: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGC0292	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.9	103 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**AST01@6''**  
**2303230-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
<b>Benzo (a) anthracene</b>	<b>0.0213</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>0.0181</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>0.0331</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>0.0115</b>	0.00500	"	"	"	"	"	"	"
<b>Chrysene</b>	<b>0.0159</b>	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>0.0232</b>	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.00869</b>	0.00500	"	"	"	"	"	"	"
<b>Pyrene</b>	<b>0.0239</b>	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0178	53.4 %	40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10	0.0250	74.9 %	40-150		"	"	"	"	"

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.110</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/01/23 00:00**

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**AST01@6''  
2303230-01 (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	30.1	0.0558	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	11.9	0.0558	"	"	"	"	"	"	
Sodium	18.5	0.0558	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.722	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.6		%	1	BGC0309	03/10/23	03/13/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.265	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**AST02@6''**  
**2303230-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0290	03/10/23	03/11/23	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: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGC0292	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.1	88.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**AST02@6''  
2303230-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.00636</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.00575</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0114</b>	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.00590</b>	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00607</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0188	56.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0246	73.7 %	40-150		"	"	"	"	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.352</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/01/23 00:00**

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

**AST02@6''  
 2303230-02 (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	222	0.0590	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	123	0.0590	"	"	"	"	"	"	
Sodium	96.1	0.0590	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.28	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BGC0309	03/10/23	03/13/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.373	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.22		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**PWVS01@9'**  
**2303230-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0290	03/10/23	03/11/23	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: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0433	108 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGC0292	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.6	100 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**PWVS01@9'**  
**2303230-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	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: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0141	42.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.9 %	40-150		"	"	"	"	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.139</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/01/23 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 - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

**PWVS01@9'**  
**2303230-03 (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	35.2	0.0653	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	11.6	0.0653	"	"	"	"	"	"	
Sodium	7.93	0.0653	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.296	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.6		%	1	BGC0309	03/10/23	03/13/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.331	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**PWVB01@8'**  
**2303230-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0290	03/10/23	03/11/23	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: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0425	106 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGC0292	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.8	94.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**PWVB01@8'**  
**2303230-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	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: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.2 %	40-150		"	"	"	"	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.340</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/01/23 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 - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**PWVB01@8'**  
**2303230-04 (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	93.3	0.0601	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	64.8	0.0601	"	"	"	"	"	"	
Sodium	36.8	0.0601	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.716	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.2		%	1	BGC0309	03/10/23	03/13/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.177	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**SEP02@4'**  
**2303230-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGC0290	03/10/23	03/21/23	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: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0499	125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGC0292	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.4	99.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**SEP02@4'**  
**2303230-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	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: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0234	70.1 %	40-150		"	"	"	"	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.217</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/01/23 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 - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**SEP02@4'**  
**2303230-05 (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	42.8	0.0606	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	16.0	0.0606	"	"	"	"	"	"	
Sodium	83.1	0.0606	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.75	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BGC0309	03/10/23	03/13/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.616	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**SEP04@4'**  
**2303230-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0290	03/10/23	03/13/23	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: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	95.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGC0292	03/10/23	03/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.3	98.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

**SEP04@4'**  
**2303230-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGC0300	03/10/23	03/14/23	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: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0248	74.3 %	40-150		"	"	"	"	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>1.52</b>	0.0100	mg/L	1	BGC0382	03/14/23	03/16/23	EPA 6020B	

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

Date Sampled: **03/01/23 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 - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**SEP04@4'**  
**2303230-06 (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	502	0.0692	mg/L dry	1	BGC0438	03/15/23	03/18/23	EPA 6020B	
Magnesium	155	0.0692	"	"	"	"	"	"	
Sodium	180	0.0692	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.80	0.00100	units	1	BGC0575	03/18/23	03/18/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	72.3		%	1	BGC0309	03/10/23	03/13/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.77	0.0100	mmhos/cm	1	BGC0494	03/16/23	03/17/23	EPA 120.1	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BGC0493	03/16/23	03/17/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

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

#### Summit Scientific

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

#### Batch BGC0290 - EPA 5030 Soil MS

##### Blank (BGC0290-BLK1)

Prepared: 03/10/23 Analyzed: 03/11/23

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

##### LCS (BGC0290-BS1)

Prepared: 03/10/23 Analyzed: 03/11/23

Benzene	0.158	0.0020	mg/kg	0.150		105	70-130			
Toluene	0.155	0.0050	"	0.150		103	70-130			
Ethylbenzene	0.159	0.0050	"	0.150		106	70-130			
m,p-Xylene	0.321	0.010	"	0.300		107	70-130			
o-Xylene	0.155	0.0050	"	0.150		103	70-130			
1,2,4-Trimethylbenzene	0.159	0.0050	"	0.150		106	70-130			
1,3,5-Trimethylbenzene	0.159	0.0050	"	0.150		106	70-130			
Naphthalene	0.149	0.0038	"	0.150		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0411		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

##### Matrix Spike (BGC0290-MS1)

Source: 2303195-01

Prepared: 03/10/23 Analyzed: 03/11/23

Benzene	0.146	0.0020	mg/kg	0.150	ND	97.4	70-130			
Toluene	0.145	0.0050	"	0.150	ND	96.4	70-130			
Ethylbenzene	0.146	0.0050	"	0.150	ND	97.5	70-130			
m,p-Xylene	0.293	0.010	"	0.300	ND	97.7	70-130			
o-Xylene	0.141	0.0050	"	0.150	ND	94.2	70-130			
1,2,4-Trimethylbenzene	0.139	0.0050	"	0.150	ND	92.5	70-130			
1,3,5-Trimethylbenzene	0.142	0.0050	"	0.150	ND	94.5	70-130			
Naphthalene	0.131	0.0038	"	0.150	ND	87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	50-150			

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Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

**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 BGC0290 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGC0290-MSD1)</b>	<b>Source: 2303195-01</b>			<b>Prepared: 03/10/23 Analyzed: 03/11/23</b>						
Benzene	0.146	0.0020	mg/kg	0.150	ND	97.6	70-130	0.164	30	
Toluene	0.143	0.0050	"	0.150	ND	95.5	70-130	0.917	30	
Ethylbenzene	0.145	0.0050	"	0.150	ND	96.7	70-130	0.865	30	
m,p-Xylene	0.292	0.010	"	0.300	ND	97.4	70-130	0.277	30	
o-Xylene	0.141	0.0050	"	0.150	ND	93.9	70-130	0.362	30	
1,2,4-Trimethylbenzene	0.136	0.0050	"	0.150	ND	90.9	70-130	1.75	30	
1,3,5-Trimethylbenzene	0.138	0.0050	"	0.150	ND	91.8	70-130	2.92	30	
Naphthalene	0.120	0.0038	"	0.150	ND	80.1	70-130	8.35	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>50-150</i>			

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Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

**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 BGC0292 - EPA 3550A**

**Blank (BGC0292-BLK1)**

Prepared: 03/10/23 Analyzed: 03/11/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		97.0		30-150			

**LCS (BGC0292-BS1)**

Prepared: 03/10/23 Analyzed: 03/11/23

C10-C28 (DRO)	455	50	mg/kg	500		91.0		70-130			
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.5		93.6		30-150			

**Matrix Spike (BGC0292-MS1)**

Source: 2303195-01

Prepared: 03/10/23 Analyzed: 03/11/23

C10-C28 (DRO)	436	50	mg/kg	500	18.9	83.4		70-130			
Surrogate: <i>o</i> -Terphenyl	9.59		"	12.5		76.7		30-150			

**Matrix Spike Dup (BGC0292-MSD1)**

Source: 2303195-01

Prepared: 03/10/23 Analyzed: 03/11/23

C10-C28 (DRO)	380	50	mg/kg	500	18.9	72.3		70-130	13.6	20	
Surrogate: <i>o</i> -Terphenyl	9.34		"	12.5		74.7		30-150			

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**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 BGC0300 - EPA 5030 Soil MS**

**Blank (BGC0300-BLK1)**

Prepared: 03/10/23 Analyzed: 03/13/23

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0254</i>		"	<i>0.0333</i>		<i>76.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0443</i>		"	<i>0.0333</i>		<i>133</i>	<i>40-150</i>			

**LCS (BGC0300-BS1)**

Prepared: 03/10/23 Analyzed: 03/13/23

Acenaphthene	0.0357	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0344	0.00500	"	0.0333	103	30-120
Benzo (a) anthracene	0.0325	0.00500	"	0.0333	97.6	30-120
Benzo (a) pyrene	0.0300	0.00500	"	0.0333	89.9	30-120
Benzo (b) fluoranthene	0.0338	0.00500	"	0.0333	101	30-120
Benzo (k) fluoranthene	0.0365	0.00500	"	0.0333	109	30-120
Chrysene	0.0314	0.00500	"	0.0333	94.3	30-120
Dibenz (a,h) anthracene	0.0300	0.00500	"	0.0333	90.1	30-120
Fluoranthene	0.0345	0.00500	"	0.0333	103	30-120
Fluorene	0.0343	0.00500	"	0.0333	103	30-120
Indeno (1,2,3-cd) pyrene	0.0306	0.00500	"	0.0333	91.8	30-120
Pyrene	0.0363	0.00500	"	0.0333	109	35-142
1-Methylnaphthalene	0.0344	0.00500	"	0.0333	103	35-142
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	67.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0393</i>		"	<i>0.0333</i>	<i>118</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0343</i>		"	<i>0.0333</i>	<i>103</i>	<i>40-150</i>

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Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

**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 BGC0300 - EPA 5030 Soil MS**

**Matrix Spike (BGC0300-MS1)**

Source: 2303046-01

Prepared: 03/10/23 Analyzed: 03/13/23

Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.6	31-137			
Anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120			
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	ND	65.1	30-120			
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.5	30-120			
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.7	30-120			
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.3	30-120			
Chrysene	0.0181	0.00500	"	0.0333	ND	54.3	30-120			
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Fluoranthene	0.0213	0.00500	"	0.0333	ND	63.8	30-120			
Fluorene	0.0208	0.00500	"	0.0333	ND	62.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.5	30-120			
Pyrene	0.0217	0.00500	"	0.0333	ND	65.0	35-142			
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130			
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.5	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0248		"	0.0333		74.4	40-150			
Surrogate: Fluoranthene-d10	0.0249		"	0.0333		74.8	40-150			

**Matrix Spike Dup (BGC0300-MSD1)**

Source: 2303046-01

Prepared: 03/10/23 Analyzed: 03/13/23

Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.6	31-137	0.0236	30
Anthracene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	0.548	30
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	0.0445	30
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	13.9	30
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	0.723	30
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	0.399	30
Chrysene	0.0183	0.00500	"	0.0333	ND	54.9	30-120	1.07	30
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	5.43	30
Fluoranthene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	2.57	30
Fluorene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	0.351	30
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	2.56	30
Pyrene	0.0223	0.00500	"	0.0333	ND	67.0	35-142	3.05	30
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	65.9	15-130	13.3	50
2-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.2	15-130	1.36	50
Surrogate: 2-Methylnaphthalene-d10	0.0267		"	0.0333		80.1	40-150		
Surrogate: Fluoranthene-d10	0.0245		"	0.0333		73.6	40-150		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

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

**Summit Scientific**

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

**Batch BGC0382 - EPA 3050B**

**Blank (BGC0382-BLK1)**

Prepared: 03/14/23 Analyzed: 03/16/23

Boron ND 0.0100 mg/L

**LCS (BGC0382-BS1)**

Prepared: 03/14/23 Analyzed: 03/16/23

Boron 5.14 0.0100 mg/L 5.00 103 80-120

**Duplicate (BGC0382-DUP1)**

Source: 2303229-01

Prepared: 03/14/23 Analyzed: 03/16/23

Boron 0.526 0.0100 mg/L 0.540 2.58 20

**Matrix Spike (BGC0382-MS1)**

Source: 2303229-01

Prepared: 03/14/23 Analyzed: 03/16/23

Boron 5.50 0.0100 mg/L 5.00 0.540 99.2 75-125

**Matrix Spike Dup (BGC0382-MSD1)**

Source: 2303229-01

Prepared: 03/14/23 Analyzed: 03/16/23

Boron 5.45 0.0100 mg/L 5.00 0.540 98.2 75-125 0.959 25

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

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

**Summit Scientific**

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

**Batch BGC0438 - General Preparation**

**Blank (BGC0438-BLK1)**

Prepared: 03/15/23 Analyzed: 03/18/23

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

**LCS (BGC0438-BS1)**

Prepared: 03/15/23 Analyzed: 03/18/23

Calcium	5.74	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.49	0.0500	"	5.00		110	70-130			
Sodium	5.02	0.0500	"	5.00		100	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

**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 BGC0309 - General Preparation**

**Duplicate (BGC0309-DUP1)**

**Source: 2303226-05**

Prepared: 03/10/23 Analyzed: 03/13/23

% Solids	89.5		%		91.3			2.03		20	
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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

**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 BGC0494 - General Preparation**

**Blank (BGC0494-BLK1)**

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGC0494-BS1)**

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BGC0494-DUP1)**

Source: 2303229-01

Prepared: 03/16/23 Analyzed: 03/17/23

Specific Conductance (EC) 4.42 0.0100 mmhos/cm 4.51 2.04 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/22/23 07:30

**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 BGC0493 - General Preparation**

**LCS (BGC0493-BS1)**

Prepared: 03/16/23 Analyzed: 03/17/23

pH	9.08	pH Units	9.18	98.9	95-105
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**Duplicate (BGC0493-DUP1)**

Source: 2303229-01

Prepared: 03/16/23 Analyzed: 03/17/23

pH	7.82	pH Units	7.89	0.891	20
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Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Dechant State H36-19 Tank

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/22/23 07:30

### Notes and Definitions

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