

FREMONT ENVIRONMENTAL INC.

June 27, 2023

Mr. Dan Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Flowline Closure Data Submittal**
 Millage C 11-22 Flowline
 API # 05-123-25517
 SWNE Sec. 11, T4N, R64W
 Weld County, Colorado
 Fremont Project No. C023-103
 Remediation # 25958

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline abandonment activities at the Noble Energy Inc. (Noble) Millage C 11-22 Flowline. Details of the flowline abandonment activities are documented in the attached Closure Report. The wellhead end sample FL02@4.5' was reported with an elevated concentration/value of EC and SAR. 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,

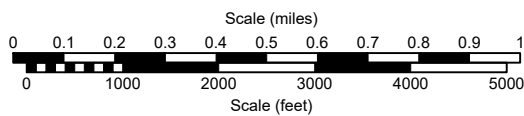
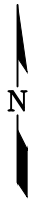
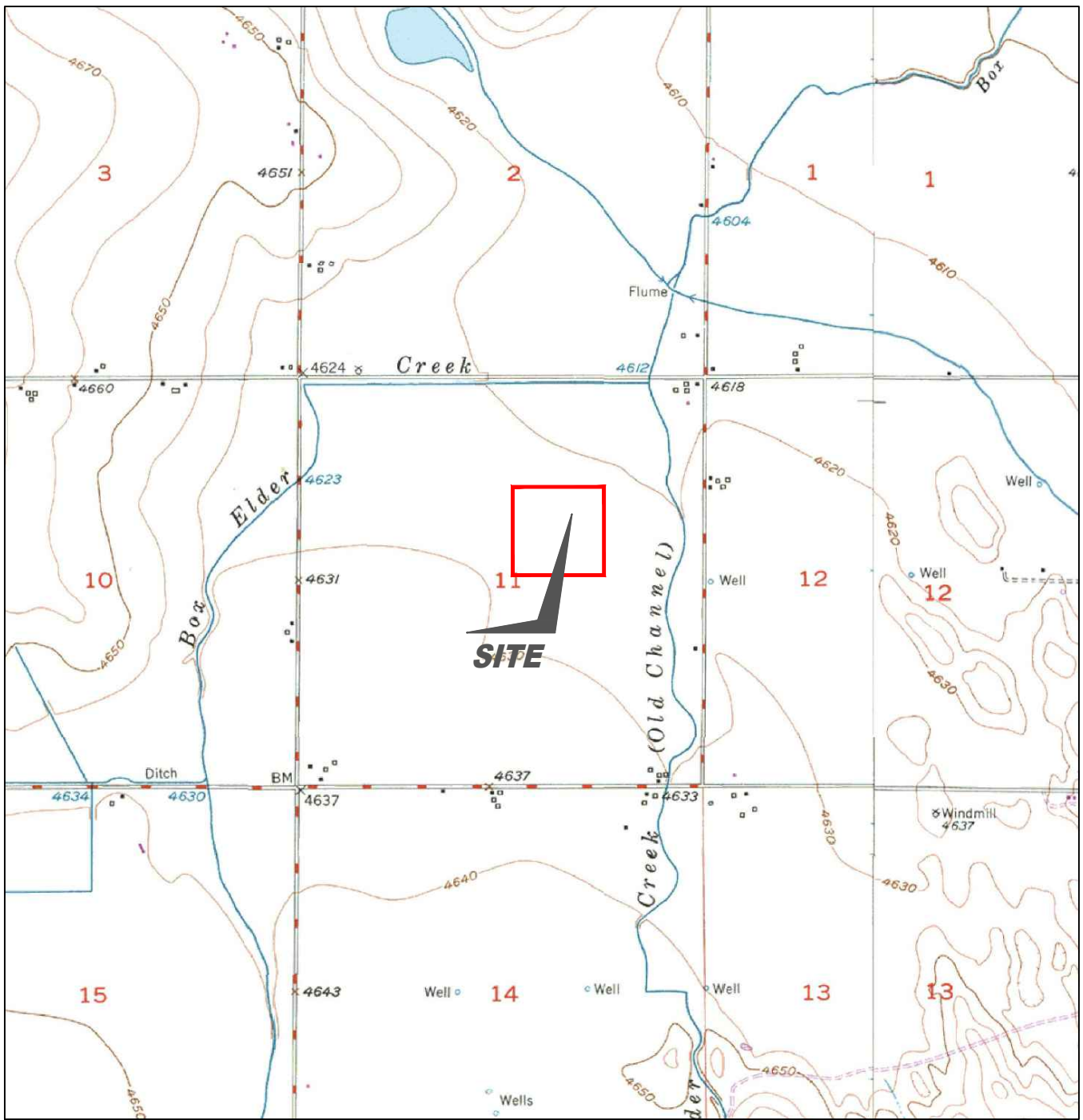
FREMONT ENVIRONMENTAL INC.



Chris Lattes
Consultant

Attachments:

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



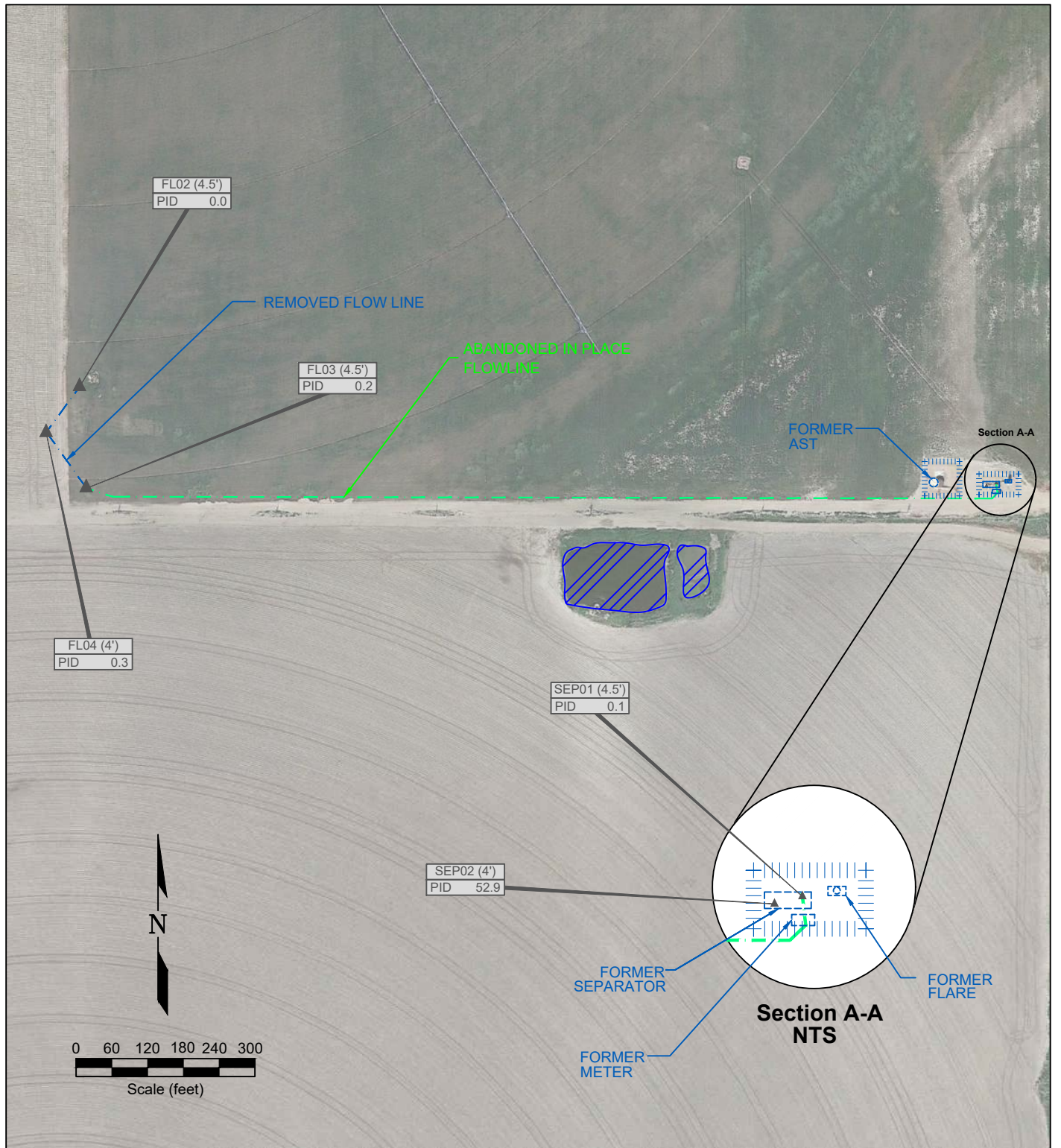
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY INC - MILLAGE C 11-22
 SWNE Sec. 11, T4N, R64W, 6th PM
 Weld County, Colorado
 40.327412°, -104.512991°

Project # CO23-103	API # 05-123-25517	Facility #
Date 8/23/2023	Remediation # 25958	Filename 23103T





LEGEND

- WELLHEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER 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 - MILLAGE C 11-22

SWNE Sec. 11, T4N, R64W, 6th PM

Weld County, Colorado

40.327412°, -104.512991°

Project # CO23-103	API # 05-123-25517	Facility #
Date 8/22/2023	Remediation # 25958	Filename 23103Q



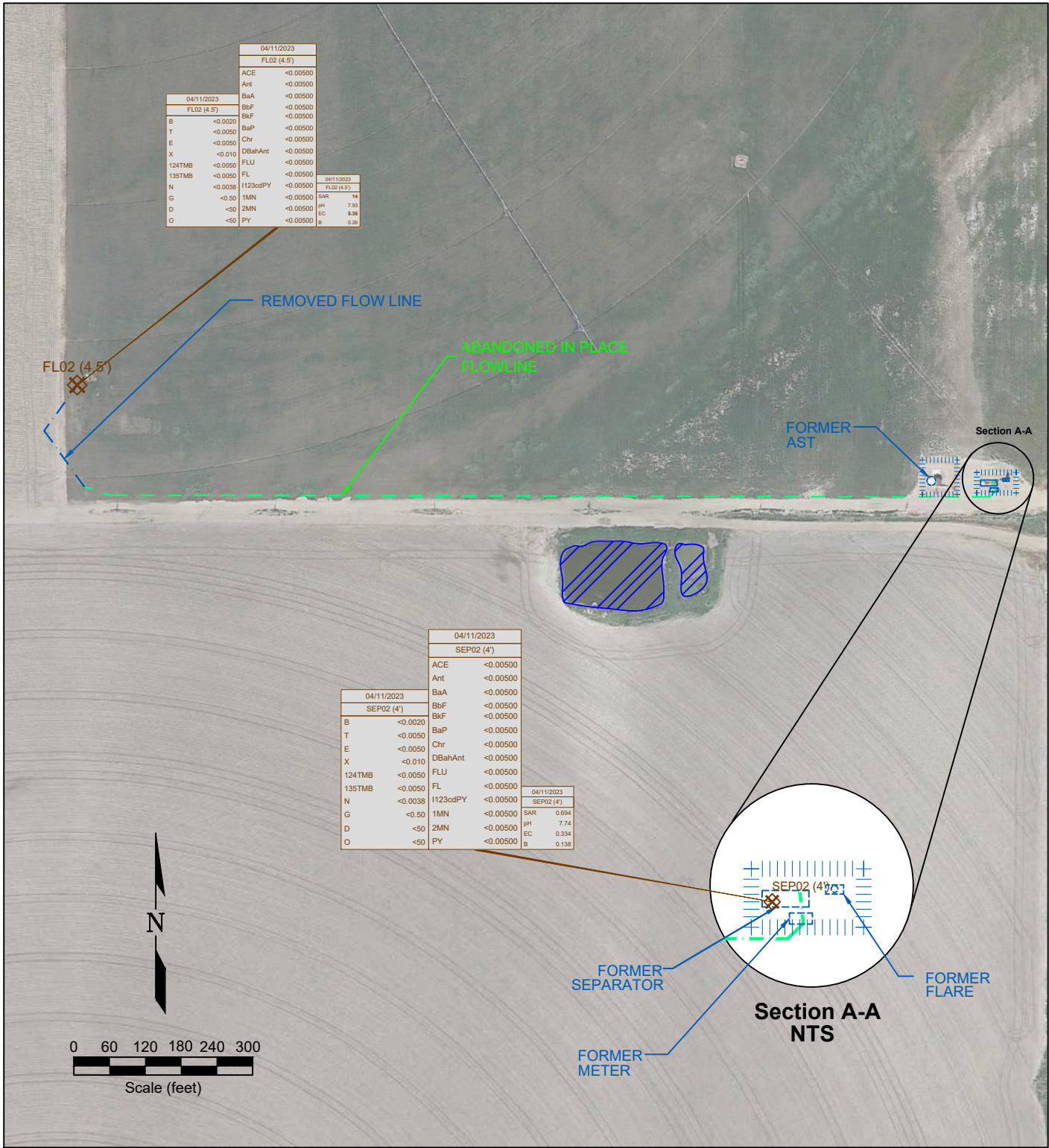


Figure 3
SOIL CHEMISTRY MAP

NOBLE ENERGY INC - MILLAGE C 11-22
SWNE Sec. 11, T4N, R64W, 6th PM
Weld County, Colorado
40.327412°, -104.512991°

Project # CO23-103	API # 05-123-25517	Facility #
Date 8/22/2023	Remediation # 25958	Filename 23103Q



12/16/2022	DATE SAMPLED	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)	FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID and DEPTH (ft)
ACE	<0.00500	ACE	<0.00500	ACE	<0.00500	ACE	<0.00500
Ant	<0.00500	Ant	<0.00500	Ant	<0.00500	Ant	<0.00500
BaA	<0.00500	BaA	<0.00500	BaA	<0.00500	BaA	<0.00500
BbF	<0.00500	BbF	<0.00500	BbF	<0.00500	BbF	<0.00500
BkF	<0.00500	BkF	<0.00500	BkF	<0.00500	BkF	<0.00500
BaP	<0.00500	BaP	<0.00500	BaP	<0.00500	BaP	<0.00500
Chr	<0.00500	Chr	<0.00500	Chr	<0.00500	Chr	<0.00500
DBahAnt	<0.00500	DBahAnt	<0.00500	DBahAnt	<0.00500	DBahAnt	<0.00500
FLU	<0.00500	FLU	<0.00500	FLU	<0.00500	FLU	<0.00500
FL	<0.00500	FL	<0.00500	FL	<0.00500	FL	<0.00500
I123cdPY	<0.00500	I123cdPY	<0.00500	I123cdPY	<0.00500	I123cdPY	<0.00500
1MN	<0.00500	1MN	<0.00500	1MN	<0.00500	1MN	<0.00500
2MN	<0.00500	2MN	<0.00500	2MN	<0.00500	2MN	<0.00500
PY	<0.00500	PY	<0.00500	PY	<0.00500	PY	<0.00500

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
MILLAGE C 11-22, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-103

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**		
FL02@4.5'	04/11/2023	4.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP02@4'	04/11/2023	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.
MILLAGE C 11-22, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-103

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
FLO2@4.5'	04/11/2023	4.5'	<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
SEP02@4'	04/11/2023	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.
MILLAGE C 11-22, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-103

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
FL02@4.5'	04/11/2023	4.5'	7.93	5.35	14	0.26
SEP02@4'	04/11/2023	4'	7.74	0.334	0.694	0.138

Bold faced values exceed the COGCC Table 915-1 concentrations

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

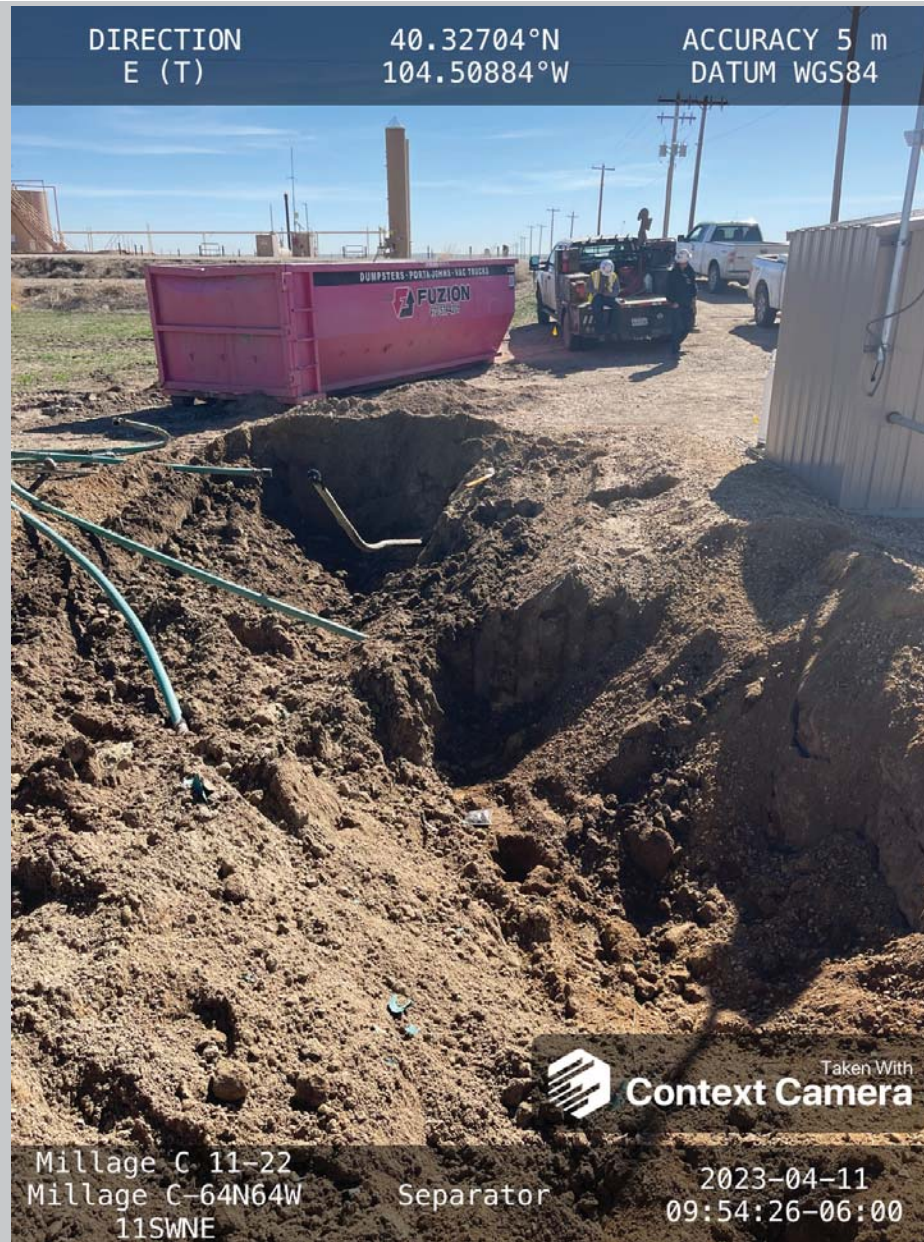
NA - Not analyzed

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 & COGCC Facility Number:</i> MILLAGE C 11-22		<i>Date:</i> 4/11/2023		<i>Remediation Project #:</i> 25958				
<i>Associated Wells:</i> 05-12325517		<i>Age of Site:</i> Unknown		<i>Number of Photos Attached:</i> See attached				
<i>Starting point: (GPS coordinates and descriptions)</i> 40.327399, -104.513066								
<i>End point: (GPS coordinates and descriptions)</i> 40.327056, -104.508738								
<i>USCS Soil Type:</i> Sandy Silt (ML) to Sand (SP)				<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> No observed hydrocarbon impacted soil or spills.								
<i>Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i> Apparent salt accumulation on agricultural field, not associated with O&G operations.								
Flowlines								
<i>Flowline type</i>	<i>Wellhead line</i>							
<i>Depth</i>	4-4.5 feet							
<i>Age</i>	Unknown							
<i>Length</i>	1386 feet							
<i>Construction Material</i>	2" steel, TGF coating							
<i>Were flowlines pulled?</i>	Partial							
<i>Visual Integrity of lines</i>	Good condition							
<i>Visual impacts if trenched</i>	None observed							
<i>PID Readings if trenched</i>	0-0.3 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> Approximately 173 feet of flowline removed and 1213 feet abandoned in place due to overhead electric lines.								
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> 5				<i>Total number of samples collected:</i> 2				
<i>Highest PID Reading:</i> 52.9 ppm				<i>Total number of samples submitted to lab for analysis:</i>				
<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>Free product observed?</i>		<input type="checkbox"/>	Yes	<input type="checkbox"/>	No			
<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>								

Photo Log



Description:

Separator Excavation; SEP02@4' (Close), SEP01@4.5' (Far)

Photo Log



Description:

Millage C11-22 Wellhead

Photo Log



DIRECTION
SW (T)

40.32733°N
104.51293°W

ACCURACY 4 m
DATUM WGS84



Millage C 11-22
Millage C-64N64W 11S...

Salt accumulated on
agricultural field

2023-04-11
10:17:59-06:00

Description:

Visible Salt Accumulation on Field

Photo Log



Description:

FL02@4.5'

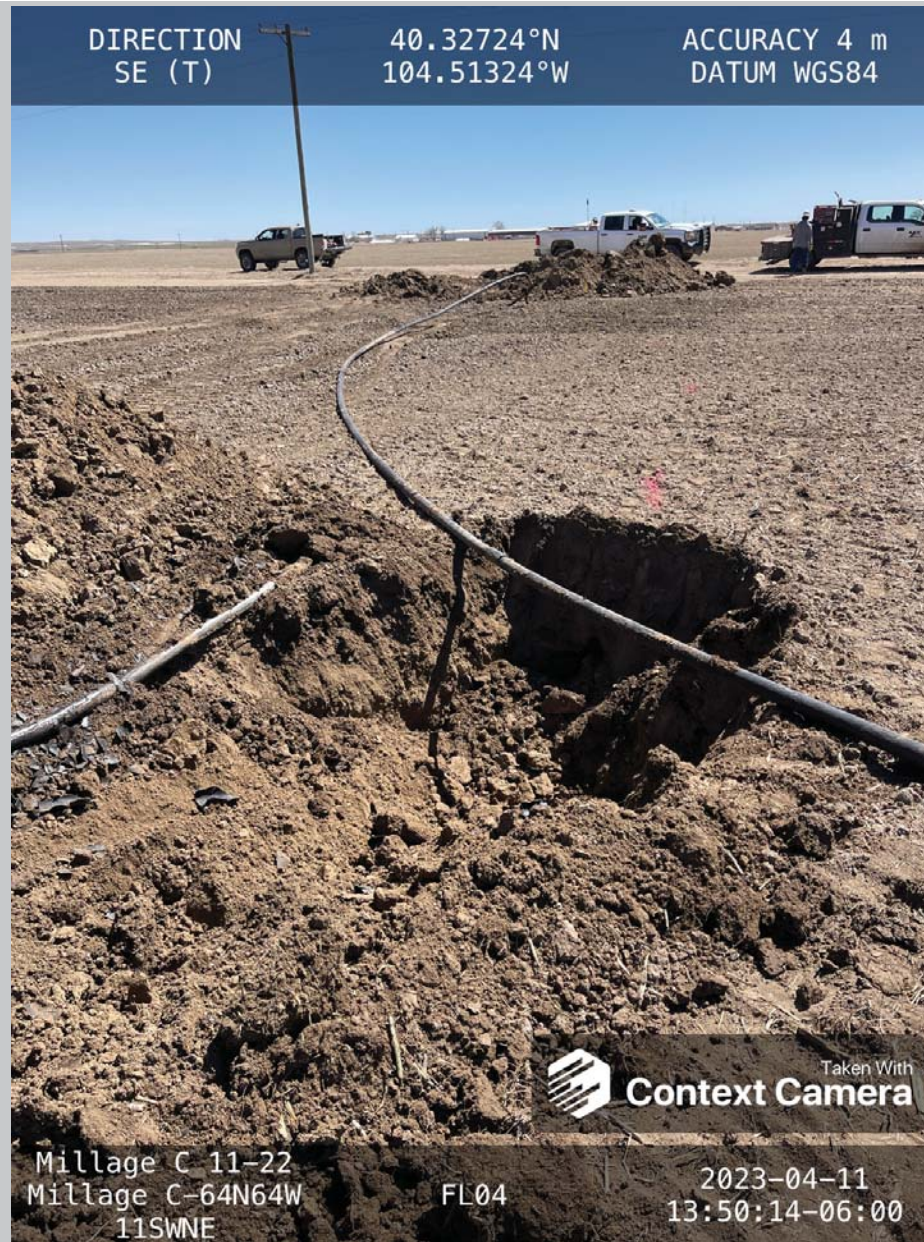
Photo Log



Description:

FL03@4.5'

Photo Log



Description:

FL04@4'

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 01, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Millage C 11-22

Work Order #2304376

Enclosed are the results of analyses for samples received by Summit Scientific on 04/18/23 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 - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP02@4'	2304376-01	Soil	04/11/23 00:00	04/18/23 16:30
PWVB01@5.5'	2304376-02	Soil	04/11/23 00:00	04/18/23 16:30
AST01@6"	2304376-03	Soil	04/11/23 00:00	04/18/23 16:30
FL02@4.5'	2304376-04	Soil	04/11/23 00:00	04/18/23 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.

2304376

Summit Scientific

S₂

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: **Millage C 11-22**
 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	SE02 @ 4'	4/11/23		2			X			X			X	X	X				
2	PWV01 @ 5.5'	↓		2			↓			↓			X	X	X				
3	AST01 @ 6"	↓		2			↓			↓			X	X	X				
4	FL02 @ 4.5'	4/11/23		2			X			X			X	X	X				
5	FL03 @ 4.5'																	X	
6																			
7																			
8																			
9																			
10																			

Relinquished by: Chris Lattes Date/Time: 4/12/23 4:35	Received by: S2 Date/Time: 4/18/23 14:35	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>9.0</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes: Millage Co 64N 64W 11SWNE CL added FL03@4.5 on hold. MA 4/21
Relinquished by: S2 Date/Time: 4/18/23 1030	Received by: [Signature] Date/Time: 4/18/23 1430		
Relinquished by:	Received by:		

S₂

Sample Receipt Checklist

S2 Work Order# 230437b

Client: Fremont Client Project ID: Millage C 11-22

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

Grid of boxes for shipping method selection

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

Temp (°C) 9.0 Thermometer # 1

Table with 5 columns: Yes, No, N/A, Comments (if any). Rows include questions about cooling, custody seals, sample age, water samples, COC form, sample integrity, volume, COC agreement, labels, headspace, preservation, pH, and filtering.

Additional Comments (if any):

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

AS Custodian Printed Name 4/18/23 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

SEP02@4'
2304376-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0604	04/19/23	04/20/23	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: **04/11/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0358	89.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0606	04/19/23	04/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.8	119 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

SEP02@4'
2304376-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0598	04/19/23	04/20/23	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: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0162	48.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0253	75.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.138	0.0100	mg/L	1	BGD0767	04/24/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/11/23 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 - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

SEP02@4'
2304376-01 (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	33.2	0.0594	mg/L dry	1	BGD0741	04/23/23	04/29/23	EPA 6020B	
Magnesium	6.48	0.0594	"	"	"	"	"	"	
Sodium	16.7	0.0594	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.694	0.00100	units	1	BGD0994	04/29/23	04/29/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.1		%	1	BGD0707	04/21/23	04/21/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.334	0.0100	mmhos/cm	1	BGD0779	04/24/23	04/24/23	EPA 120.1	

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

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BGD0782	04/24/23	04/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

PWVB01@5.5'
2304376-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0604	04/19/23	04/20/23	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: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0351	87.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0456	114 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0606	04/19/23	04/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.4	115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

PWVB01@5.5'
2304376-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0598	04/19/23	04/20/23	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: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0355	106 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0771	0.0100	mg/L	1	BGD0767	04/24/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/11/23 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 - Millage C 11-22

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/01/23 14:18

PWVB01@5.5'
2304376-02 (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	37.7	0.0523	mg/L dry	1	BGD0741	04/23/23	04/29/23	EPA 6020B	
Magnesium	6.17	0.0523	"	"	"	"	"	"	
Sodium	11.0	0.0523	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.438	0.00100	units	1	BGD0994	04/29/23	04/29/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BGD0707	04/21/23	04/21/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.209	0.0100	mmhos/cm	1	BGD0779	04/24/23	04/24/23	EPA 120.1	

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

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BGD0782	04/24/23	04/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

**AST01@6''
2304376-03 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGD0604	04/19/23	04/20/23	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: **04/11/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0351	87.8 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0448	112 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0606	04/19/23	04/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.68	77.5 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

**AST01@6''
2304376-03 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0598	04/19/23	04/20/23	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: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0266	79.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0307	92.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.173	0.0100	mg/L	1	BGD0767	04/24/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/11/23 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 - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

**AST01@6''
2304376-03 (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	67.8	0.0550	mg/L dry	1	BGD0741	04/23/23	04/29/23	EPA 6020B	
Magnesium	12.7	0.0550	"	"	"	"	"	"	
Sodium	34.8	0.0550	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.02	0.00100	units	1	BGD0994	04/29/23	04/29/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BGD0707	04/21/23	04/21/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.883	0.0100	mmhos/cm	1	BGD0779	04/24/23	04/24/23	EPA 120.1	

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

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.70		pH Units	1	BGD0782	04/24/23	04/24/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

FL02@4.5'
2304376-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0604	04/19/23	04/20/23	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: **04/11/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0373	93.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0606	04/19/23	04/22/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.37	75.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

FL02@4.5'
2304376-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0598	04/19/23	04/20/23	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: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0245	73.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0270	81.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.260	0.0100	mg/L	1	BGD0767	04/24/23	04/29/23	EPA 6020B	

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

Date Sampled: **04/11/23 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 - Millage C 11-22

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/01/23 14:18

FL02@4.5'
2304376-04 (Soil)

Summit Scientific

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	128	0.0620	mg/L dry	1	BGD0741	04/23/23	04/29/23	EPA 6020B	
Magnesium	40.7	0.0620	"	"	"	"	"	"	
Sodium	710	0.0620	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	14.0	0.00100	units	1	BGD0994	04/29/23	04/29/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.7		%	1	BGD0707	04/21/23	04/21/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.35	0.0100	mmhos/cm	1	BGD0779	04/24/23	04/24/23	EPA 120.1	

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

Date Sampled: **04/11/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BGD0782	04/24/23	04/24/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

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 BGD0604 - EPA 5030 Soil MS

Blank (BGD0604-BLK1)

Prepared & Analyzed: 04/19/23

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>	0.0368		"	0.0400		92.1	50-150				
<i>Surrogate: Toluene-d8</i>	0.0383		"	0.0400		95.8	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0409		"	0.0400		102	50-150				

LCS (BGD0604-BS1)

Prepared & Analyzed: 04/19/23

Benzene	0.101	0.0020	mg/kg	0.125		81.1	70-130				
Toluene	0.0940	0.0050	"	0.125		75.2	70-130				
Ethylbenzene	0.142	0.0050	"	0.125		113	70-130				
m,p-Xylene	0.288	0.010	"	0.250		115	70-130				
o-Xylene	0.139	0.0050	"	0.125		111	70-130				
1,2,4-Trimethylbenzene	0.161	0.0050	"	0.125		129	70-130				
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125		125	70-130				
Naphthalene	0.142	0.0038	"	0.125		113	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0362		"	0.0400		90.5	50-150				
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.4	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.7	50-150				

Matrix Spike (BGD0604-MS1)

Source: 2304340-01

Prepared & Analyzed: 04/19/23

Benzene	0.100	0.0020	mg/kg	0.125	ND	80.3	70-130				
Toluene	0.0926	0.0050	"	0.125	ND	74.1	70-130				
Ethylbenzene	0.140	0.0050	"	0.125	ND	112	70-130				
m,p-Xylene	0.285	0.010	"	0.250	ND	114	70-130				
o-Xylene	0.137	0.0050	"	0.125	ND	109	70-130				
1,2,4-Trimethylbenzene	0.160	0.0050	"	0.125	ND	128	70-130				
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125	ND	125	70-130				
Naphthalene	0.158	0.0038	"	0.125	ND	126	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0375		"	0.0400		93.7	50-150				
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		98.0	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0392		"	0.0400		97.9	50-150				

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 PO Box 1289
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Project: Noble - Millage C 11-22

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/01/23 14:18

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 BGD0604 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0604-MSD1)	Source: 2304340-01			Prepared & Analyzed: 04/19/23						
Benzene	0.109	0.0020	mg/kg	0.125	ND	87.4	70-130	8.50	30	
Toluene	0.0942	0.0050	"	0.125	ND	75.4	70-130	1.67	30	
Ethylbenzene	0.139	0.0050	"	0.125	ND	112	70-130	0.793	30	
m,p-Xylene	0.283	0.010	"	0.250	ND	113	70-130	0.688	30	
o-Xylene	0.137	0.0050	"	0.125	ND	109	70-130	0.132	30	
1,2,4-Trimethylbenzene	0.162	0.0050	"	0.125	ND	129	70-130	0.801	30	
1,3,5-Trimethylbenzene	0.157	0.0050	"	0.125	ND	125	70-130	0.498	30	
Naphthalene	0.142	0.0038	"	0.125	ND	113	70-130	10.6	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.1</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>50-150</i>			

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Project: Noble - Millage C 11-22

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/01/23 14:18

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 BGD0606 - EPA 3550A

Blank (BGD0606-BLK1)

Prepared: 04/19/23 Analyzed: 04/21/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	8.50		"	12.5		68.0		30-150			

LCS (BGD0606-BS1)

Prepared: 04/19/23 Analyzed: 04/21/23

C10-C28 (DRO)	467	50	mg/kg	500		93.4		70-130			
Surrogate: <i>o</i> -Terphenyl	12.0		"	12.5		96.4		30-150			

Matrix Spike (BGD0606-MS1)

Source: 2304340-01

Prepared: 04/19/23 Analyzed: 04/21/23

C10-C28 (DRO)	430	50	mg/kg	500	19.8	82.0		70-130			
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		85.3		30-150			

Matrix Spike Dup (BGD0606-MSD1)

Source: 2304340-01

Prepared: 04/19/23 Analyzed: 04/21/23

C10-C28 (DRO)	489	50	mg/kg	500	19.8	93.8		70-130	12.7	20	
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		83.7		30-150			

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PO Box 1289
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Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

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 BGD0598 - EPA 5030 Soil MS

Blank (BGD0598-BLK1)

Prepared & Analyzed: 04/19/23

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>	0.0382		"	0.0333	115	40-150				
<i>Surrogate: Fluoranthene-d10</i>	0.0377		"	0.0333	113	40-150				

LCS (BGD0598-BS1)

Prepared & Analyzed: 04/19/23

Acenaphthene	0.0384	0.00500	mg/kg	0.0333	115	31-137				
Anthracene	0.0374	0.00500	"	0.0333	112	30-120				
Benzo (a) anthracene	0.0372	0.00500	"	0.0333	111	30-120				
Benzo (a) pyrene	0.0329	0.00500	"	0.0333	98.7	30-120				
Benzo (b) fluoranthene	0.0360	0.00500	"	0.0333	108	30-120				
Benzo (k) fluoranthene	0.0341	0.00500	"	0.0333	102	30-120				
Chrysene	0.0313	0.00500	"	0.0333	94.0	30-120				
Dibenz (a,h) anthracene	0.0318	0.00500	"	0.0333	95.3	30-120				
Fluoranthene	0.0366	0.00500	"	0.0333	110	30-120				
Fluorene	0.0381	0.00500	"	0.0333	114	30-120				
Indeno (1,2,3-cd) pyrene	0.0342	0.00500	"	0.0333	103	30-120				
Pyrene	0.0394	0.00500	"	0.0333	118	35-142				
1-Methylnaphthalene	0.0390	0.00500	"	0.0333	117	35-142				
2-Methylnaphthalene	0.0373	0.00500	"	0.0333	112	35-142				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0370		"	0.0333	111	40-150				
<i>Surrogate: Fluoranthene-d10</i>	0.0380		"	0.0333	114	40-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

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 BGD0598 - EPA 5030 Soil MS

Matrix Spike (BGD0598-MS1)

Source: 2304369-01

Prepared & Analyzed: 04/19/23

Acenaphthene	0.0258	0.00500	mg/kg	0.0333	ND	77.5	31-137			
Anthracene	0.0273	0.00500	"	0.0333	ND	81.9	30-120			
Benzo (a) anthracene	0.0256	0.00500	"	0.0333	0.00354	66.1	30-120			
Benzo (a) pyrene	0.0201	0.00500	"	0.0333	ND	60.4	30-120			
Benzo (b) fluoranthene	0.0237	0.00500	"	0.0333	ND	71.2	30-120			
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.9	30-120			
Chrysene	0.0210	0.00500	"	0.0333	0.00325	53.2	30-120			
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333	ND	57.6	30-120			
Fluoranthene	0.0326	0.00500	"	0.0333	0.00852	72.2	30-120			
Fluorene	0.0262	0.00500	"	0.0333	ND	78.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333	ND	64.2	30-120			
Pyrene	0.0310	0.00500	"	0.0333	0.00843	67.8	35-142			
1-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.4	15-130			
2-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.7	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0229		"	0.0333		68.6	40-150			
Surrogate: Fluoranthene-d10	0.0276		"	0.0333		82.8	40-150			

Matrix Spike Dup (BGD0598-MSD1)

Source: 2304369-01

Prepared & Analyzed: 04/19/23

Acenaphthene	0.0287	0.00500	mg/kg	0.0333	ND	86.2	31-137	10.7	30	
Anthracene	0.0305	0.00500	"	0.0333	ND	91.4	30-120	10.9	30	
Benzo (a) anthracene	0.0293	0.00500	"	0.0333	0.00354	77.2	30-120	13.4	30	
Benzo (a) pyrene	0.0237	0.00500	"	0.0333	ND	71.2	30-120	16.3	30	
Benzo (b) fluoranthene	0.0265	0.00500	"	0.0333	ND	79.5	30-120	11.1	30	
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.9	30-120	0.0487	30	
Chrysene	0.0235	0.00500	"	0.0333	0.00325	60.8	30-120	11.4	30	
Dibenz (a,h) anthracene	0.0212	0.00500	"	0.0333	ND	63.5	30-120	9.78	30	
Fluoranthene	0.0358	0.00500	"	0.0333	0.00852	81.9	30-120	9.49	30	
Fluorene	0.0284	0.00500	"	0.0333	ND	85.1	30-120	8.11	30	
Indeno (1,2,3-cd) pyrene	0.0254	0.00500	"	0.0333	ND	76.3	30-120	17.3	30	
Pyrene	0.0368	0.00500	"	0.0333	0.00843	85.0	35-142	16.9	30	
1-Methylnaphthalene	0.0254	0.00500	"	0.0333	ND	76.3	15-130	9.47	50	
2-Methylnaphthalene	0.0250	0.00500	"	0.0333	ND	75.1	15-130	22.9	50	
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		69.9	40-150			
Surrogate: Fluoranthene-d10	0.0292		"	0.0333		87.5	40-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/01/23 14:18

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 BGD0767 - EPA 3050B

Blank (BGD0767-BLK1)

Prepared: 04/24/23 Analyzed: 04/29/23

Boron ND 0.0100 mg/L

LCS (BGD0767-BS1)

Prepared: 04/24/23 Analyzed: 04/29/23

Boron 4.85 0.0100 mg/L 5.00 96.9 80-120

Duplicate (BGD0767-DUP1)

Source: 2304258-03

Prepared: 04/24/23 Analyzed: 04/29/23

Boron 0.172 0.0100 mg/L 0.181 5.03 20

Matrix Spike (BGD0767-MS1)

Source: 2304258-03

Prepared: 04/24/23 Analyzed: 04/29/23

Boron 5.16 0.0100 mg/L 5.00 0.181 99.6 75-125

Matrix Spike Dup (BGD0767-MSD1)

Source: 2304258-03

Prepared: 04/24/23 Analyzed: 04/29/23

Boron 4.83 0.0100 mg/L 5.00 0.181 92.9 75-125 6.72 25

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 PO Box 1289
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Project: Noble - Millage C 11-22

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/01/23 14:18

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 BGD0741 - General Preparation

Blank (BGD0741-BLK1)

Prepared: 04/23/23 Analyzed: 04/29/23

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

LCS (BGD0741-BS1)

Prepared: 04/23/23 Analyzed: 04/29/23

Calcium	4.87	0.0500	mg/L wet	5.00		97.3	70-130			
Magnesium	4.40	0.0500	"	5.00		88.0	70-130			
Sodium	4.18	0.0500	"	5.00		83.6	70-130			

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 PO Box 1289
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Project: Noble - Millage C 11-22

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/01/23 14:18

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 BGD0707 - General Preparation

Duplicate (BGD0707-DUP1)

Source: 2304258-03

Prepared & Analyzed: 04/21/23

% Solids	90.0		%		90.3			0.324		20	
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 PO Box 1289
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Project: Noble - Millage C 11-22

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/01/23 14:18

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 BGD0779 - General Preparation

Blank (BGD0779-BLK1)

Prepared & Analyzed: 04/24/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGD0779-BS1)

Prepared & Analyzed: 04/24/23

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

Duplicate (BGD0779-DUP1)

Source: 2304363-01

Prepared & Analyzed: 04/24/23

Specific Conductance (EC) 0.828 0.0100 mmhos/cm 0.836 0.926 20

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Fremont Environmental
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Project: Noble - Millage C 11-22

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 05/01/23 14:18

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 BGD0782 - General Preparation

LCS (BGD0782-BS1)

Prepared & Analyzed: 04/24/23

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BGD0782-DUP1)

Source: 2304363-01

Prepared & Analyzed: 04/24/23

pH	8.34	pH Units	8.21	1.57	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C 11-22

Project Number: [none]
Project Manager: Paul Henchan

Reported:
05/01/23 14:18

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