

FREMONT ENVIRONMENTAL INC.

March 14, 2024

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

Subject: **Flowline Closure Data Submittal**
Ritcher USX AB 27-13
API # 05-123-32724
SWSW Sec. 27, T7N, R64W
Weld County, Colorado
Fremont Project No. C023-177
Remediation # 27763

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline closure activities for the Noble Energy Inc. (Noble) Ritcher USX AB 27-13. Impacted soil was not encountered during abandonment activities. Details of the Ritcher USX AB 27-13 closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (303) 261-6246 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Stanley Gilbert
Environmental Scientist

Attachments:

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

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

Flowline Closure Checklist

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

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

Starting point: (GPS coordinates and descriptions)

End point: (GPS coordinates and descriptions)

USCS Soil Type: _____ *Estimated Depth to Groundwater:* _____

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

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

Flowlines

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

Other observations regarding on location flowlines:

Summary

Was impacted soil identified?
 No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: _____ *Total number of samples collected:* _____

Highest PID Reading: _____ *Total number of samples submitted to lab for analysis:* _____

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: _____ *Estimated spill volume:* _____

Lateral extent: _____ *Volume of soil removed:* _____

Is additional investigation required?

Was groundwater encountered during the investigation?
 No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater: _____ *Was remedial groundwater removal conducted? Yes No*

Date Groundwater was encountered: _____ *Commencement date of removal:* _____

Sheen on groundwater? Yes No *Volume of groundwater removed prior to sampling:* _____

Free product observed? Yes No *Volume of groundwater removed post sampling:* _____

Total number of samples collected: _____ *Total Volume of groundwater removed:* _____

Total number of samples submitted to lab for analysis: _____

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
RITCHER USX AB 27-13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-177

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)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
FL01 4feet	06/29/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL03 3feet	06/29/2023	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL06 4feet	06/29/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC 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.
RITCHER USX AB 27-13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-177

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)
ECMC 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
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01 4feet	06/29/2023	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
FL03 3feet	06/29/2023	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL06 4feet	06/29/2023	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 ECMC 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

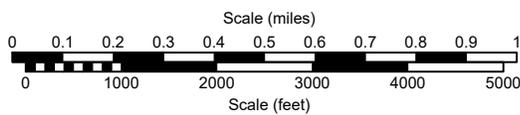
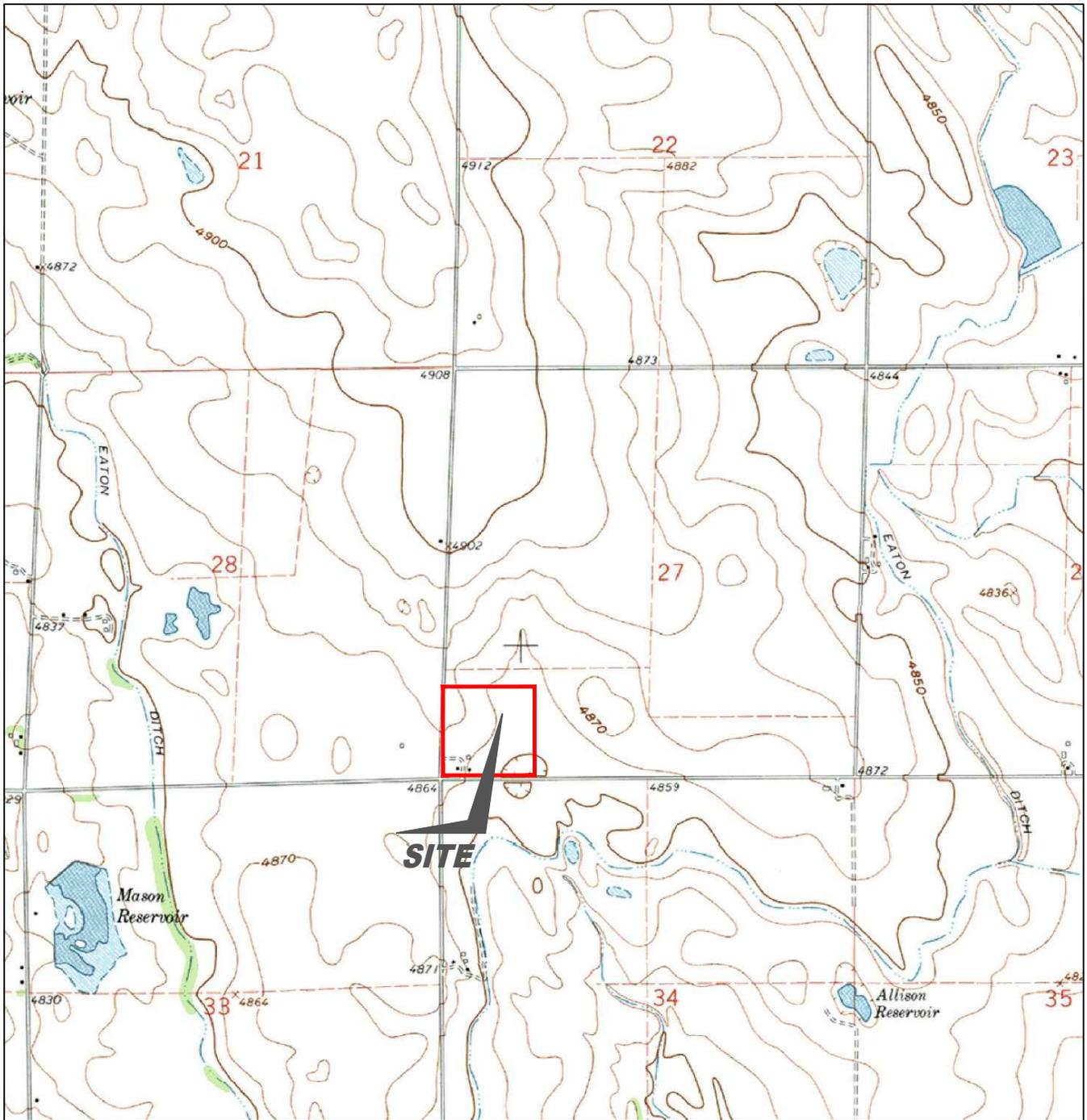
TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
RITCHER USX AB 27-13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-177

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 4feet	06/29/2023	4'	7.96	0.306	2.49	0.240
FL03 3feet	06/29/2023	3'	7.89	0.567	0.859	0.153
FL06 4feet	06/29/2023	4'	8.08	0.299	0.477	0.215

Bold faced values exceed the ECMC Table 915-1 concentrations

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

NA - Not analyzed



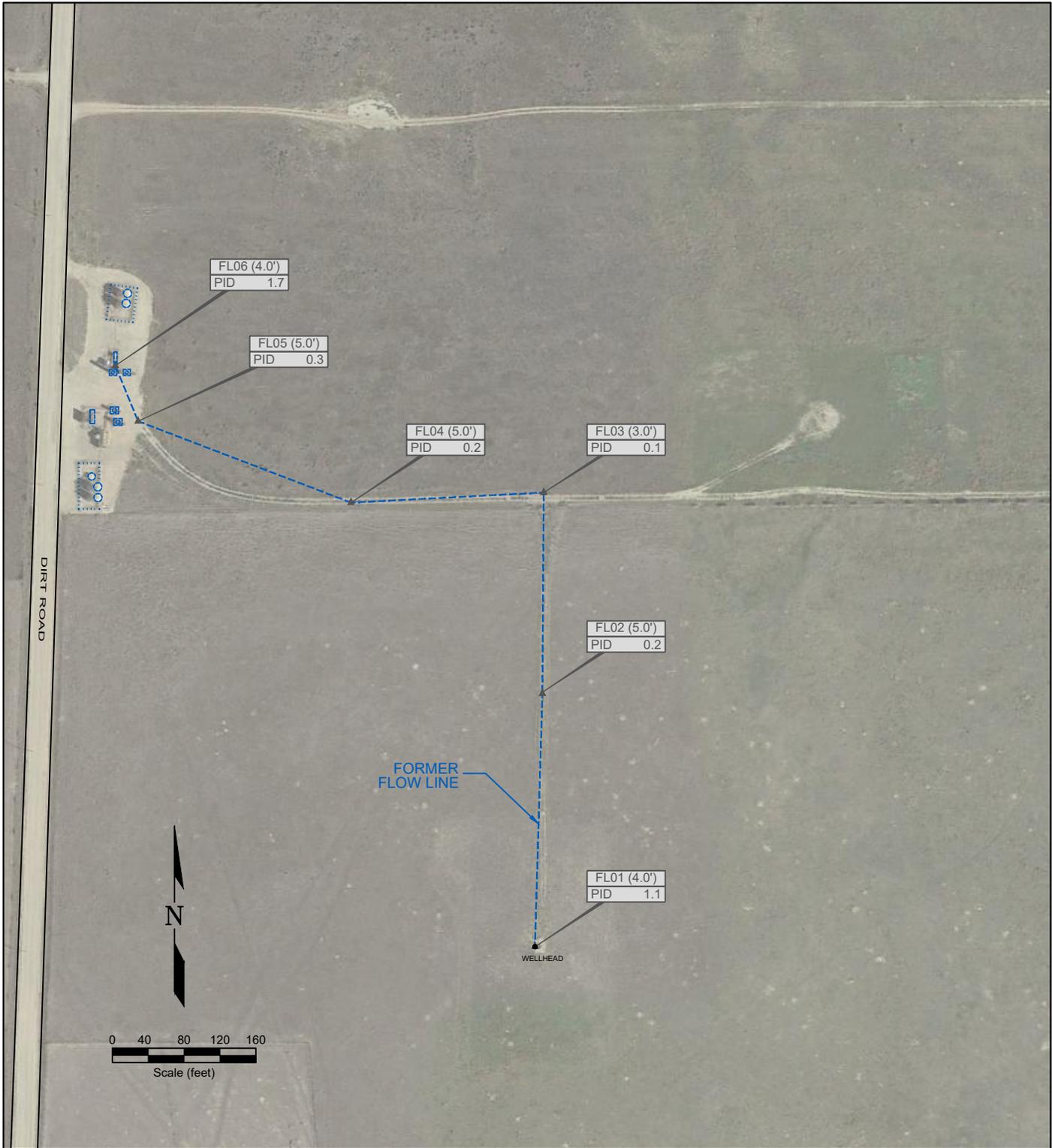
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY INC - RICHTER USX AB 27-13
 SWSW Sec. 27, T7N, R64W, 6th PM
 Weld County, Colorado
 40.538990°, -104.543010°

Project # CO23-177	API # 05-123-32724	Facility #
Date 10/23/2023	Remediation # 27763	Filename 23177T





LEGEND

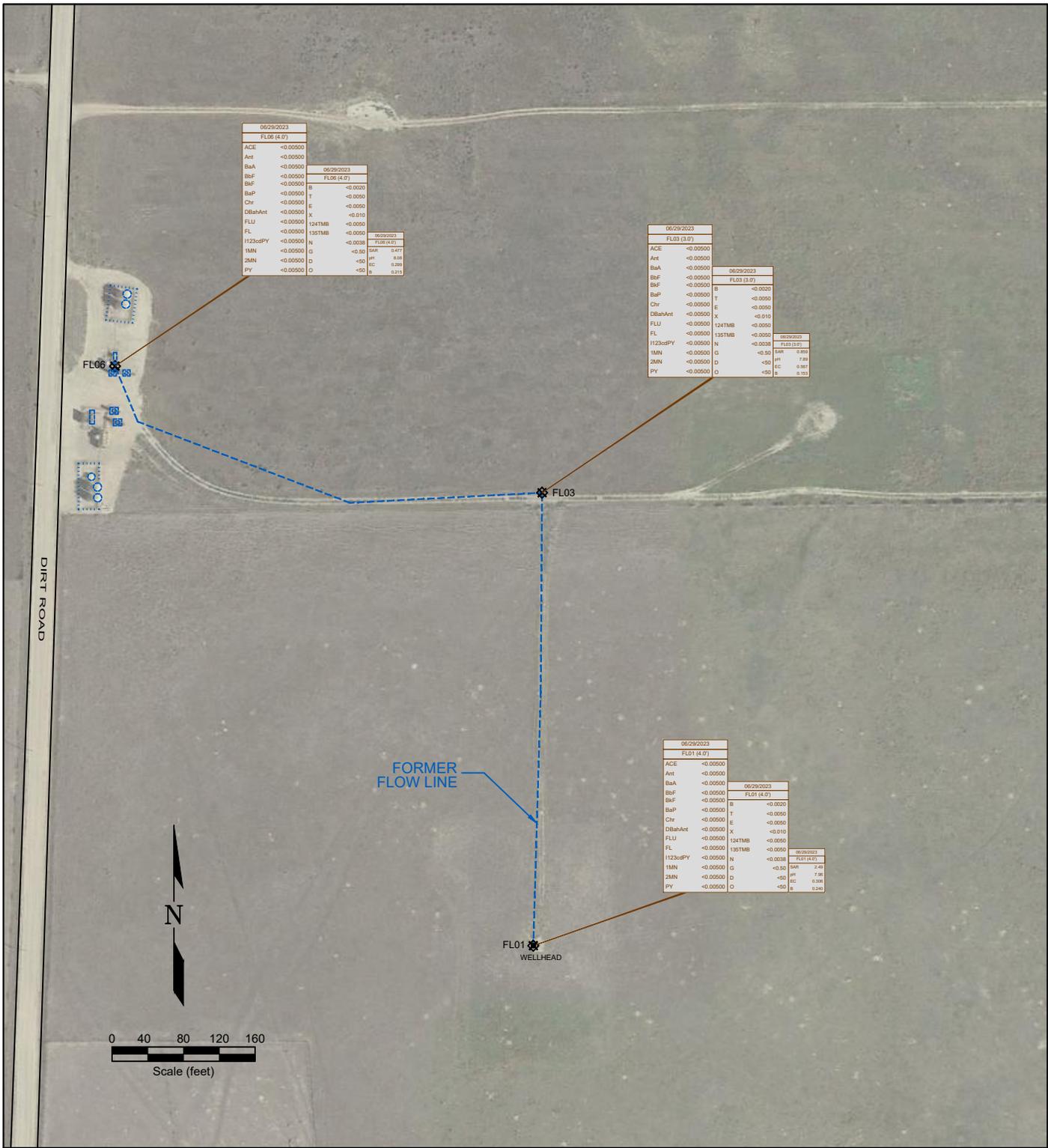
- WELLHEAD LOCATION
 - ▲ PID READING LOCATION
 - ABOVE GROUND STORAGE TANK
 - FORMER FACILITY
 - FLOW LINE
 - CONTAINMENT BERM
 - FENCE LINE
- FL01 PID 0.1 PID READING LOCATION IDENTIFICATION PHOTO IONIZATION DETECTION (ppm)

Figure 2
SITE MAP

NOBLE ENERGY INC - RICHTER USX AB 27-13
 SWSW Sec. 27, T7N, R64W, 6th PM
 Weld County, Colorado
 40.538990°, -104.543010°

Project # CO23-177	API # 05-123-32724	Facility #
Date 10/23/2023	Remediation # 27763	Filename 23177Q





LEGEND

- WELLHEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FLOW LINE
- CONTAINMENT BERM
- FENCE LINE

4/7/2023	DATE SAMPLED	4/7/2023	DATE SAMPLED	4/7/2023	DATE SAMPLED
FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID & DEPTH (ft)
ACE	<0.00500	ACE	<0.00500	ACE	<0.00500
Ant	<0.00500	Ant	<0.00500	Ant	<0.00500
BaA	<0.00500	BaA	<0.00500	BaA	<0.00500
BbF	<0.00500	BbF	<0.00500	BbF	<0.00500
BkF	<0.00500	BkF	<0.00500	BkF	<0.00500
BaP	<0.00500	BaP	<0.00500	BaP	<0.00500
Chr	<0.00500	Chr	<0.00500	Chr	<0.00500
DBahAnt	<0.00500	DBahAnt	<0.00500	DBahAnt	<0.00500
FLU	<0.00500	FLU	<0.00500	FLU	<0.00500
FL	<0.00500	FL	<0.00500	FL	<0.00500
1123cdPY	<0.00500	1123cdPY	<0.00500	1123cdPY	<0.00500
1MN	<0.00500	1MN	<0.00500	1MN	<0.00500
2MN	<0.00500	2MN	<0.00500	2MN	<0.00500
PY	<0.00500	PY	<0.00500	PY	<0.00500

Figure 3
SOIL CHEMISTRY MAP

NOBLE ENERGY INC - RICHTER USX AB 27-13
SWSW Sec. 27, T7N, R64W, 6th PM
Weld County, Colorado
40.538990°, -104.543010°

Project # CO23-177	API # 05-123-32724	Facility #
Date 10/23/2023	Remediation # 27763	Filename 23177Q

Photo Log



Description:

--

Photo Log



Description:

Photo Log



Description:

--

Photo Log



Description:

--

Photo Log



Description:

--

Photo Log



Description:

--

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 12, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

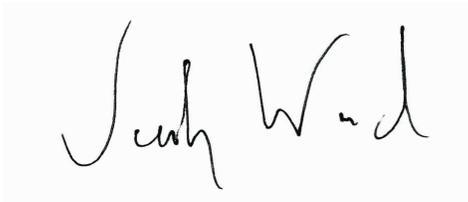
Wellington, CO 80549

RE: Noble - Richter USXAB 27-13 FL

Work Order #2306626

Enclosed are the results of analyses for samples received by Summit Scientific on 06/29/23 15:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small "nd" at the end of the last name.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 4feet	2306626-01	Soil	06/29/23 12:12	06/29/23 15:46
FL03 3feet	2306626-02	Soil	06/29/23 12:15	06/29/23 15:46
FL06 4feet	2306626-03	Soil	06/29/23 11:26	06/29/23 15:46

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.



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

Lab ID
Page 1 of 1
2306626

Client: Fremont Environmental		Project Manager: Paul Henehan		Company: <u>Nahle</u>	
Address:		E-Mail: Fremont Distribution List		Project Name/Location: <u>Richter USX AB 27-13 FL</u>	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: <u>Richter USX AB 27-13 FL</u>		PO/Billing Codes: <u>UWRWE -A2763-ABN</u>	
Sampler Name: Stanley Gilbert		Project Number:		Contact: <u>Mike Montoya</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron		Metals (915)	TDS, Chloride, Sulfate	HOLD
1	FLO1 4 feet	6/29/23	12:12	2			X			X			X	X	X	X				
2	FLO3 3 feet	I	12:15	I			I			I			I	I	I	I				
3	FLO6 4 feet	I	11:26	I			I			I			I	I	I	I				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>6/29/23 15:46</u>	Received by: <u>Summit North</u>	Date/Time: <u>6/29/23 15:46</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>82</u>	Date/Time: <u>6/29/23 15:46</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6/29/23 15:46</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>13.0</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #:			



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL01 4feet
2306626-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGF1129	06/30/23	07/02/23	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: **06/29/23 12:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0448	112 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0456	114 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGF1134	06/30/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.4	82.8 %		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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL01 4feet
2306626-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF1104	06/30/23	07/01/23	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: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0140	42.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0170	51.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.240	0.0100	mg/L	1	BGF1107	06/30/23	07/02/23	EPA 6020B	

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

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL01 4feet
2306626-01 (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	0.324	0.0581	mg/L dry	1	BGG0166	07/07/23	07/11/23	EPA 6020B	
Magnesium	ND	0.0581	"	"	"	"	"	"	
Sodium	5.77	0.0581	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.49	0.00100	units	1	BGG0293	07/11/23	07/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	BGG0029	07/03/23	07/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.306	0.0100	mmhos/cm	1	BGG0227	07/10/23	07/10/23	EPA 120.1	

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

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BGG0225	07/10/23	07/10/23	EPA 9045D	

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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL03 3feet
2306626-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGF1129	06/30/23	07/02/23	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: **06/29/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0451	113 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0448	112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGF1134	06/30/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.2	89.3 %		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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL03 3feet
2306626-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF1104	06/30/23	07/01/23	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: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	63.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.153	0.0100	mg/L	1	BGF1107	06/30/23	07/02/23	EPA 6020B	

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

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL03 3feet
2306626-02 (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	26.5	0.0529	mg/L dry	1	BGG0166	07/07/23	07/11/23	EPA 6020B	
Magnesium	10.1	0.0529	"	"	"	"	"	"	
Sodium	20.5	0.0529	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.859	0.00100	units	1	BGG0293	07/11/23	07/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BGG0029	07/03/23	07/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.567	0.0100	mmhos/cm	1	BGG0227	07/10/23	07/10/23	EPA 120.1	

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

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BGG0225	07/10/23	07/10/23	EPA 9045D	

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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL06 4feet
2306626-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGF1129	06/30/23	07/02/23	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: **06/29/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0434	109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0455	114 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGF1134	06/30/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.7	85.9 %		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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL06 4feet
2306626-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF1104	06/30/23	07/01/23	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: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0173	51.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.215	0.0100	mg/L	1	BGF1107	06/30/23	07/02/23	EPA 6020B	

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

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL06 4feet
2306626-03 (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	0.189	0.0575	mg/L dry	1	BGG0166	07/07/23	07/11/23	EPA 6020B	
Magnesium	0.0877	0.0575	"	"	"	"	"	"	
Sodium	1.00	0.0575	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.477	0.00100	units	1	BGG0293	07/11/23	07/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BGG0029	07/03/23	07/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.299	0.0100	mmhos/cm	1	BGG0227	07/10/23	07/10/23	EPA 120.1	

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

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BGG0225	07/10/23	07/10/23	EPA 9045D	

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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

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 BGF1129 - EPA 5030 Soil MS

Blank (BGF1129-BLK1)

Prepared: 06/30/23 Analyzed: 07/01/23

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	0.0387		"	0.0400		96.7	50-150			
Surrogate: Toluene-d8	0.0445		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0460		"	0.0400		115	50-150			

LCS (BGF1129-BS1)

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	0.112	0.0020	mg/kg	0.125		89.4	70-130			
Toluene	0.154	0.0050	"	0.125		123	70-130			
Ethylbenzene	0.150	0.0050	"	0.125		120	70-130			
m,p-Xylene	0.304	0.010	"	0.250		122	70-130			
o-Xylene	0.142	0.0050	"	0.125		114	70-130			
1,2,4-Trimethylbenzene	0.151	0.0050	"	0.125		121	70-130			
1,3,5-Trimethylbenzene	0.152	0.0050	"	0.125		122	70-130			
Naphthalene	0.129	0.0038	"	0.125		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0442		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0400		109	50-150			

Matrix Spike (BGF1129-MS1)

Source: 2306373-01

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	0.112	0.0020	mg/kg	0.125	ND	89.9	70-130			
Toluene	0.155	0.0050	"	0.125	ND	124	70-130			
Ethylbenzene	0.154	0.0050	"	0.125	ND	123	70-130			
m,p-Xylene	0.313	0.010	"	0.250	ND	125	70-130			
o-Xylene	0.150	0.0050	"	0.125	ND	120	70-130			
1,2,4-Trimethylbenzene	0.155	0.0050	"	0.125	ND	124	70-130			
1,3,5-Trimethylbenzene	0.153	0.0050	"	0.125	ND	123	70-130			
Naphthalene	0.144	0.0038	"	0.125	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400		98.4	50-150			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0442		"	0.0400		110	50-150			

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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

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 BGF1129 - EPA 5030 Soil MS

Matrix Spike Dup (BGF1129-MSD1)	Source: 2306373-01			Prepared: 06/30/23 Analyzed: 07/01/23						
Benzene	0.109	0.0020	mg/kg	0.125	ND	87.5	70-130	2.76	30	
Toluene	0.153	0.0050	"	0.125	ND	122	70-130	1.36	30	
Ethylbenzene	0.147	0.0050	"	0.125	ND	118	70-130	4.29	30	
m,p-Xylene	0.300	0.010	"	0.250	ND	120	70-130	4.12	30	
o-Xylene	0.140	0.0050	"	0.125	ND	112	70-130	6.89	30	
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.125	ND	124	70-130	0.503	30	
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.125	ND	121	70-130	1.30	30	
Naphthalene	0.138	0.0038	"	0.125	ND	110	70-130	4.66	30	
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	50-150			
Surrogate: Toluene-d8	0.0441		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0436		"	0.0400		109	50-150			

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 - Richter USXAB 27-13 FL
 Project Number: UWRWE-A2763-ABN
 Project Manager: Paul Henchan

Reported:
 07/12/23 08:50

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 BGF1134 - EPA 3550A

Blank (BGF1134-BLK1)

Prepared & Analyzed: 06/30/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.2		"	12.5		81.8	30-150				

LCS (BGF1134-BS1)

Prepared & Analyzed: 06/30/23

C10-C28 (DRO)	363	50	mg/kg	500		72.6	70-130				
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.2	30-150				

Matrix Spike (BGF1134-MS1)

Source: 2306373-01

Prepared & Analyzed: 06/30/23

C10-C28 (DRO)	393	50	mg/kg	500	37.3	71.1	70-130				
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.2	30-150				

Matrix Spike Dup (BGF1134-MSD1)

Source: 2306373-01

Prepared & Analyzed: 06/30/23

C10-C28 (DRO)	406	50	mg/kg	500	37.3	73.7	70-130	3.20	20		
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.5	30-150				

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 - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

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 BGF1104 - EPA 5030 Soil MS

Blank (BGF1104-BLK1)

Prepared & Analyzed: 06/30/23

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>	0.0372		"	0.0333	112	40-150				
<i>Surrogate: Fluoranthene-d10</i>	0.0375		"	0.0333	112	40-150				

LCS (BGF1104-BS1)

Prepared & Analyzed: 06/30/23

Acenaphthene	0.0339	0.00500	mg/kg	0.0333	102	31-137				
Anthracene	0.0348	0.00500	"	0.0333	104	30-120				
Benzo (a) anthracene	0.0318	0.00500	"	0.0333	95.5	30-120				
Benzo (a) pyrene	0.0323	0.00500	"	0.0333	97.0	30-120				
Benzo (b) fluoranthene	0.0273	0.00500	"	0.0333	81.8	30-120				
Benzo (k) fluoranthene	0.0303	0.00500	"	0.0333	90.9	30-120				
Chrysene	0.0349	0.00500	"	0.0333	105	30-120				
Dibenz (a,h) anthracene	0.0267	0.00500	"	0.0333	80.1	30-120				
Fluoranthene	0.0310	0.00500	"	0.0333	92.9	30-120				
Fluorene	0.0332	0.00500	"	0.0333	99.7	30-120				
Indeno (1,2,3-cd) pyrene	0.0374	0.00500	"	0.0333	112	30-120				
Pyrene	0.0376	0.00500	"	0.0333	113	35-142				
1-Methylnaphthalene	0.0317	0.00500	"	0.0333	95.1	35-142				
2-Methylnaphthalene	0.0306	0.00500	"	0.0333	91.9	35-142				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0308		"	0.0333	92.4	40-150				
<i>Surrogate: Fluoranthene-d10</i>	0.0312		"	0.0333	93.7	40-150				

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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

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 BGF1104 - EPA 5030 Soil MS

Matrix Spike (BGF1104-MS1)	Source: 2306593-01			Prepared & Analyzed: 06/30/23						
Acenaphthene	0.0242	0.00500	mg/kg	0.0333	ND	72.5	31-137			
Anthracene	0.0245	0.00500	"	0.0333	ND	73.6	30-120			
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.6	30-120			
Benzo (a) pyrene	0.0218	0.00500	"	0.0333	ND	65.5	30-120			
Benzo (b) fluoranthene	0.0231	0.00500	"	0.0333	ND	69.2	30-120			
Benzo (k) fluoranthene	0.0211	0.00500	"	0.0333	ND	63.2	30-120			
Chrysene	0.0247	0.00500	"	0.0333	ND	74.1	30-120			
Dibenz (a,h) anthracene	0.0159	0.00500	"	0.0333	ND	47.7	30-120			
Fluoranthene	0.0263	0.00500	"	0.0333	ND	79.0	30-120			
Fluorene	0.0237	0.00500	"	0.0333	ND	71.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0212	0.00500	"	0.0333	ND	63.5	30-120			
Pyrene	0.0251	0.00500	"	0.0333	ND	75.2	35-142			
1-Methylnaphthalene	0.0261	0.00500	"	0.0333	ND	78.2	15-130			
2-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.4	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0235</i>		<i>"</i>	<i>0.0333</i>		<i>70.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0272</i>		<i>"</i>	<i>0.0333</i>		<i>81.6</i>	<i>40-150</i>			

Matrix Spike Dup (BGF1104-MSD1)	Source: 2306593-01			Prepared & Analyzed: 06/30/23						
Acenaphthene	0.0196	0.00500	mg/kg	0.0333	ND	58.8	31-137	20.8	30	
Anthracene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	22.0	30	
Benzo (a) anthracene	0.0197	0.00500	"	0.0333	ND	59.2	30-120	24.4	30	
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	30-120	20.7	30	
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	10.3	30	
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	15.6	30	
Chrysene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	25.7	30	
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	45.8	30-120	4.11	30	
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.3	30-120	22.0	30	
Fluorene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	3.26	30	
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	14.8	30	
Pyrene	0.0207	0.00500	"	0.0333	ND	62.0	35-142	19.3	30	
1-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.6	15-130	42.9	50	
2-Methylnaphthalene	0.0147	0.00500	"	0.0333	ND	44.1	15-130	48.6	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0148</i>		<i>"</i>	<i>0.0333</i>		<i>44.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0185</i>		<i>"</i>	<i>0.0333</i>		<i>55.6</i>	<i>40-150</i>			

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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
 Project Manager: Paul Henchan

Reported:
 07/12/23 08:50

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 BGF1107 - EPA 3050B

Blank (BGF1107-BLK1)

Prepared: 06/30/23 Analyzed: 07/02/23

Boron ND 0.0100 mg/L

LCS (BGF1107-BS1)

Prepared: 06/30/23 Analyzed: 07/02/23

Boron 5.50 0.0100 mg/L 5.00 110 80-120

Duplicate (BGF1107-DUP1)

Source: 2306586-01

Prepared: 06/30/23 Analyzed: 07/02/23

Boron 0.148 0.0100 mg/L 0.166 11.1 20

Matrix Spike (BGF1107-MS1)

Source: 2306586-01

Prepared: 06/30/23 Analyzed: 07/02/23

Boron 5.95 0.0100 mg/L 5.00 0.166 116 75-125

Matrix Spike Dup (BGF1107-MSD1)

Source: 2306586-01

Prepared: 06/30/23 Analyzed: 07/02/23

Boron 6.24 0.0100 mg/L 5.00 0.166 121 75-125 4.75 25

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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
 Project Manager: Paul Henchan

Reported:
 07/12/23 08:50

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 BGG0166 - General Preparation

Blank (BGG0166-BLK1)

Prepared: 07/07/23 Analyzed: 07/11/23

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

LCS (BGG0166-BS1)

Prepared: 07/07/23 Analyzed: 07/11/23

Calcium	5.88	0.0500	mg/L wet	5.00		118	70-130			
Magnesium	5.81	0.0500	"	5.00		116	70-130			
Sodium	5.97	0.0500	"	5.00		119	70-130			

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 - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
 Project Manager: Paul Henchan

Reported:
 07/12/23 08:50

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

Summit Scientific

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

Batch BGG0029 - General Preparation

Duplicate (BGG0029-DUP1)

Source: 2306586-01

Prepared & Analyzed: 07/03/23

% Solids	84.2		%		84.4			0.272	20	
----------	------	--	---	--	------	--	--	-------	----	--

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
 Project Manager: Paul Henchan

Reported:
 07/12/23 08:50

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 BGG0227 - General Preparation

Blank (BGG0227-BLK1)

Prepared & Analyzed: 07/10/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGG0227-BS1)

Prepared & Analyzed: 07/10/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BGG0227-DUP1)

Source: 2306373-04

Prepared & Analyzed: 07/10/23

Specific Conductance (EC) 0.396 0.0100 mmhos/cm 0.399 0.931 20

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
 Project Manager: Paul Henchan

Reported:
 07/12/23 08:50

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 BGG0225 - General Preparation

LCS (BGG0225-BS1)

Prepared & Analyzed: 07/10/23

pH	9.16		pH Units	9.18	99.8	95-105			
----	------	--	----------	------	------	--------	--	--	--

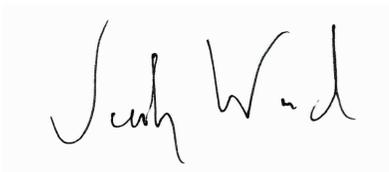
Duplicate (BGG0225-DUP1)

Source: 2306373-04

Prepared & Analyzed: 07/10/23

pH	8.19		pH Units	8.18		0.122	20		
----	------	--	----------	------	--	-------	----	--	--

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

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