

FREMONT ENVIRONMENTAL INC.

March 3, 2024

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

Subject: **Flowline Closure Data Submittal**
Calvary USX EE29-04D
API # 05-123-33673
SWNW Sec. 29, T7N, R65W
Weld County, Colorado
Fremont Project No. C023-246
Remediation # 29728

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline closure activities for the Noble Energy Inc. (Noble) Calvary USX EE29-04D. Impacted soil was not encountered during abandonment activities. Details of the Calvary USX EE29-04D 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> CALVARY USX EE29-04D		<i>Date:</i> 09/14/2023				<i>Remediation Project #:</i> 29728		
<i>Associated Wells:</i> API:05-123-33673		<i>Age of Site:</i> 2011				<i>Number of Photos Attached:</i> 6		

Starting point: (GPS coordinates and descriptions)
40.549536, -104.695252

End point: (GPS coordinates and descriptions)
40.549401, -104.691872

USCS Soil Type: SC *Estimated Depth to Groundwater:* >6'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Flowlines

<i>Flowline type</i>	OIL/Water/Gas							
<i>Depth</i>	5'- 6'							
<i>Age</i>	2011							
<i>Length</i>	1027'							
<i>Construction Material</i>	Steel							
<i>Were flowlines pulled?</i>	Yes							
<i>Visual Integrity of lines</i>	Good							
<i>Visual impacts if trenched</i>	N/A							
<i>PID Readings if trenched</i>	N/A							
<i>Sample taken? Location/Sample ID#</i>	Yes, see attached							
<i>Photo Number(s)</i>	See attached							

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: 5 *Total number of samples collected:* 6

Highest PID Reading: 2.1ppm (FL01 5') *Total number of samples submitted to lab for analysis:* 1

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.
CALVARY USX EE29-04D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-246

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 5'	09/14/2023	5.0 FT	<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.
CALVARY USX EE29-04D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-246

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 5'	09/14/2023	5.0 FT	<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.
CALVARY USX EE29-04D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-246

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 5'	09/14/2023	5.0 FT	8.15	1.00	1.95	0.208
BKG01 5'	09/14/2023	5.0 FT	8.05	1.09	1.93	0.211

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA - Not analyzed

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
CALVARY USX EE29-04D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-246

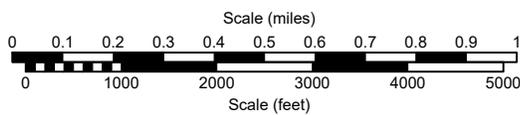
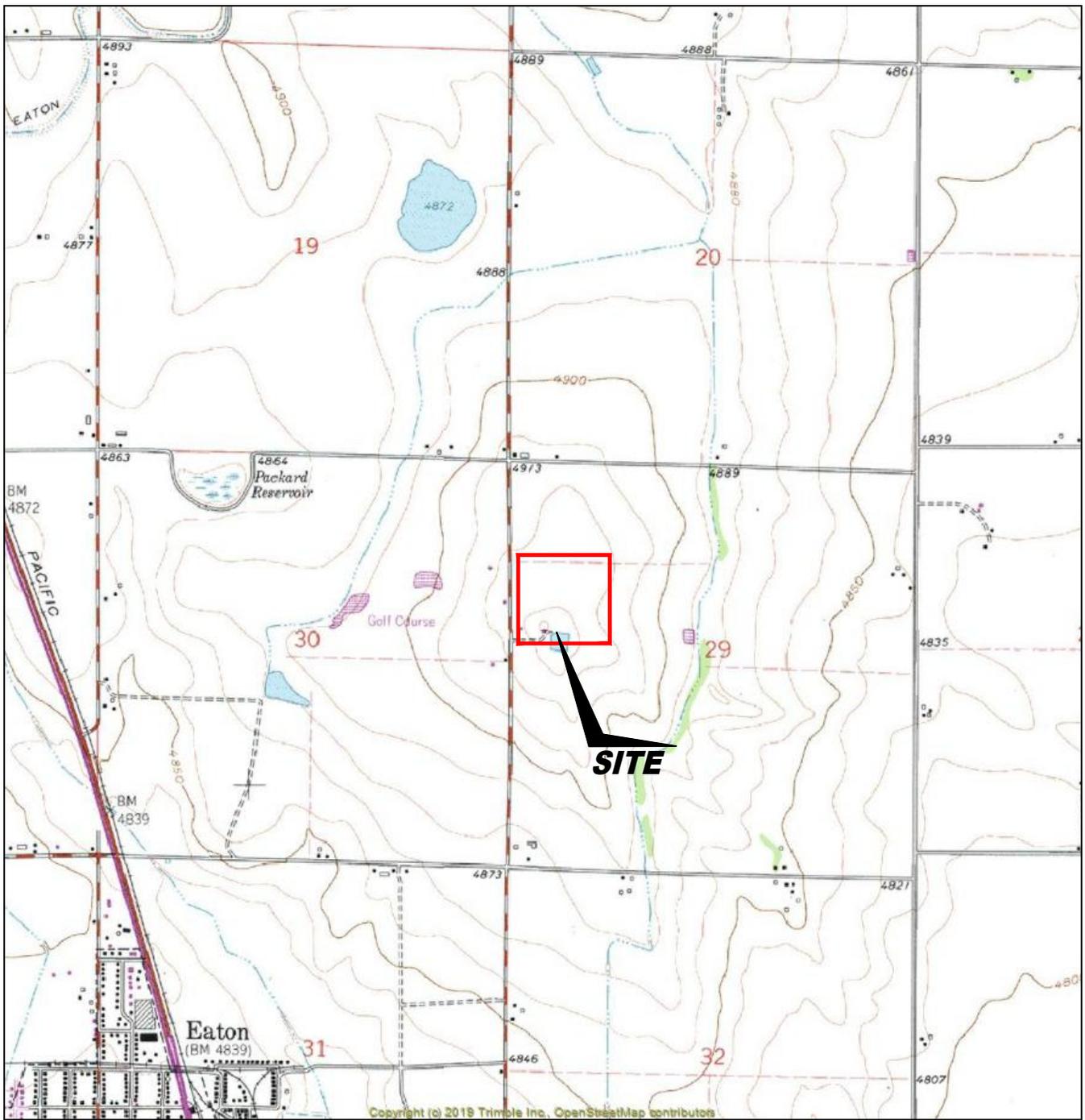
Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01 5'	09/14/2023	5.0 FT	1.95	70.0	0.224	<0.30	4.94	5.67	3.99	<0.260	0.0209	17.6
BKG01 5'	09/14/2023	5.0 FT	2.39	93.0	0.464	<0.30	6.71	7.04	4.74	<0.260	0.0266	25.2

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



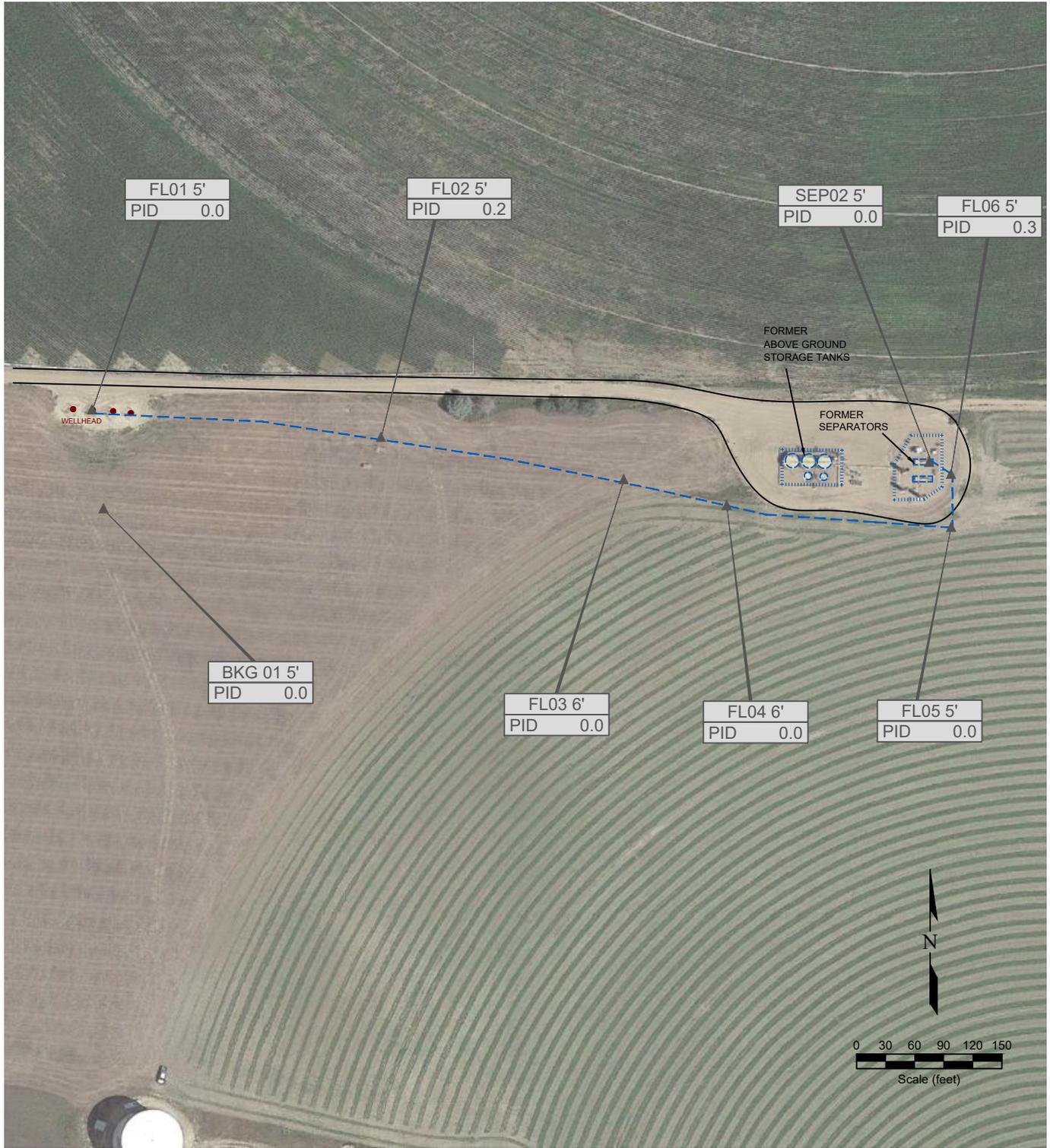
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
CALVARY USX EE29-04D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
 Weld County, Colorado
 40.549550°, -104.695250°

Project # C023-246	API # 05-123-33673	Facility #
Date 4/19/24	Remediation # 29728	Filename 23246T





LEGEND

● WELL HEAD LOCATION	▲ PID READING LOCATION	ASST ABOVE GROUND STORAGE TANK	FORMER FACILITY	FORMER FLOWLINE
				FENCE LINE
				CONTAINMENT BERM

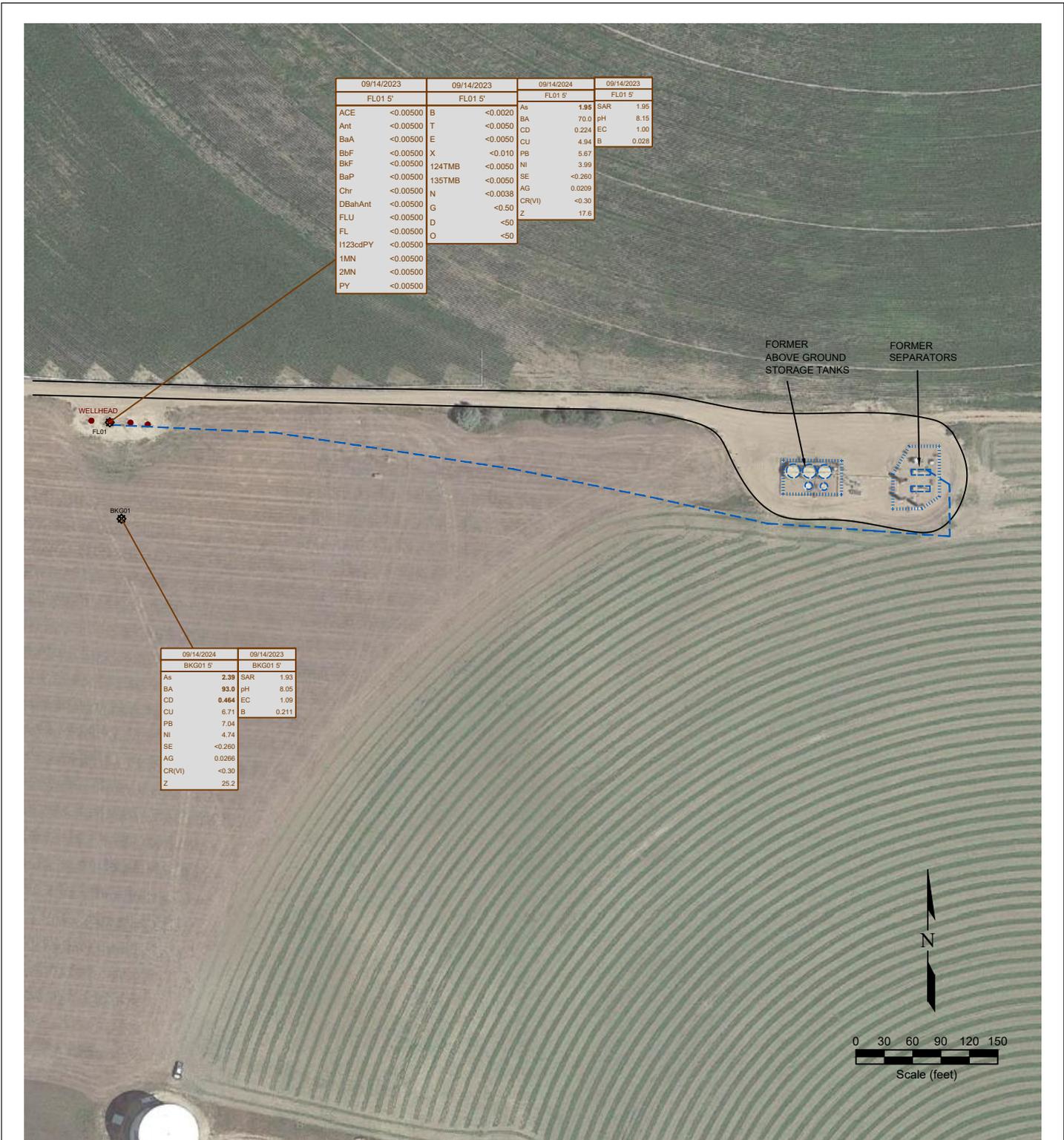
Figure 2
SITE MAP

CALVARY USX EE29-04D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
Weld County, Colorado
40.549550°, -104.69520°

Project No. C023-246	API # 05-123-33673	Facility #
Date 5/13/24	Remediation # 29728	Filename 23246Q1

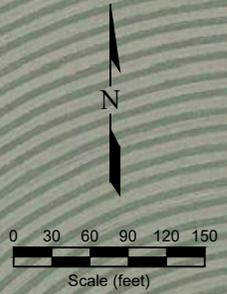




FORMER ABOVE GROUND STORAGE TANKS
FORMER SEPARATORS

WELLHEAD
FL01

BKG01



LEGEND

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
03/24/2021	N Wall @ 3'	08/18/2022	K-22-3-N-3 (3')
ACE	<0.005	As	2.41
ACE	<0.005	BA	28.0
Ant	<0.005	CD	<0.0945
BaA	<0.005	CU	<0.45
BbF	<0.005	Pb	150
BkF	<0.005	NI	<0.45
BaP	<0.005	SE	0.135
Chr	<0.005	AG	<0.0945
DBahAnt	<0.005	Zn	<0.4
FLU	<0.005	CR(VI)	<0.488
FL	<0.005		
1123cdPY	<0.005		
1-MN	<0.005		
2-MN	<0.005		
PY	<0.005		

DATE	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
01/22/21	N Wall @ 1'	01/22/21	N Wall @ 1'
SAR	83.78	SAR	83.78
pH	9.4	pH	9.4
EC	3.34	EC	3.34
BORON	5.4	BORON	5.4

Figure 3
SOIL CHEMISTRY MAP
CALVARY USX EE29-04D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
Weld County, Colorado
40.549550°, -104.69520°

Project No. C023-246	API # 05-123-33673	Facility #
Date 4/19/24	Remediation # 29728	Filename 23246Q1



Photo Log



Description:

Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 26, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Calvery USX EE 29-04D

Work Order #2309270

Enclosed are the results of analyses for samples received by Summit Scientific on 09/14/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 5'	2309270-01	Soil	09/14/23 11:37	09/14/23 16:30
BKG01 5'	2309270-02	Soil	09/14/23 11:55	09/14/23 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2309270	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: Calvary USX EE 29-04D
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: Calvary USX EE 29-04D	PO/Billing Codes: WWRWE-A 3316-ABN
Sampler Name: Stanley Gilbert		Project Number:	Contact: Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD	
1	F101 5'	9/14/23	11:37	2			X			X			X	X	X	X	X			
2	BK601 5'	2	11:55	1			X			X					X	X				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>[Signature]</i>	Date/Time: 9/14/23 16:00	Received by: Summit North	Date/Time: 9/14/23 16:00	TAT Business Days	Field DO	Notes:
Relinquished by: 52	Date/Time: 9/14/23 16:30	Received by: <i>[Signature]</i>	Date/Time: 9/14/23 16:30	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 9.3	Corrected Temperature: \emptyset	IR gun #: 1	HNO3 lot #:	Standard	X	Field Turb.

S₂

Sample Receipt Checklist

S2 Work Order# 2309270

Client: Fremont Client Project ID: Calvary USX EE 29-04D

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

-

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

Temp (°C) 9.3 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾		✓		No time stamps
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

AS
Custodian Printed Name

9/14/23
Date/Time

30



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

FL01 5'
2309270-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGI0507	09/18/23	09/20/23	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: **09/14/23 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGI0514	09/18/23	09/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.94	79.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

FL01 5'
2309270-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0585	09/20/23	09/20/23	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: **09/14/23 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0412	124 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.208	0.0100	mg/L	1	BGI0510	09/18/23	09/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:37**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

FL01 5'
2309270-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.95	0.200	mg/kg dry	1	BGI0383	09/14/23	09/18/23	EPA 6020B	
Barium	70.0	0.400	"	"	"	"	"	"	
Cadmium	0.224	0.200	"	"	"	"	"	"	
Copper	4.94	0.400	"	"	"	"	"	"	
Lead	5.67	0.200	"	"	"	"	"	"	
Nickel	3.99	0.400	"	"	"	"	"	"	
Silver	0.0209	0.0200	"	"	"	"	"	"	
Zinc	17.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0616	09/20/23	09/21/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.0	0.0609	mg/L dry	1	BGI0578	09/20/23	09/22/23	EPA 6020B	
Magnesium	28.1	0.0609	"	"	"	"	"	"	
Sodium	70.5	0.0609	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.95	0.00100	units	1	BGI0681	09/22/23	09/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:37**

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 - Calvery USX EE 29-04D
 Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

FL01 5'
2309270-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.1	%	1	BGI0560	09/19/23	09/19/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.00	0.0100	mmhos/cm	1	BGI0632	09/21/23	09/21/23	EPA 120.1	

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

Date Sampled: **09/14/23 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BGI0631	09/21/23	09/21/23	EPA 9045D	

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Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

BKG01 5'
2309270-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	0.211	0.0100		mg/L	1	BGI0510	09/18/23	09/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.39	0.200		mg/kg dry	1	BGI0383	09/14/23	09/18/23	EPA 6020B	
Barium	93.0	0.400		"	"	"	"	"	"	
Cadmium	0.464	0.200		"	"	"	"	"	"	
Copper	6.71	0.400		"	"	"	"	"	"	
Lead	7.04	0.200		"	"	"	"	"	"	
Nickel	4.74	0.400		"	"	"	"	"	"	
Silver	0.0266	0.0200		"	"	"	"	"	"	
Zinc	25.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGI0616	09/20/23	09/21/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	64.9	0.0627		mg/L dry	1	BGI0578	09/20/23	09/22/23	EPA 6020B	
Magnesium	32.2	0.0627		"	"	"	"	"	"	
Sodium	76.3	0.0627		"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

BKG01 5'
2309270-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/14/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.93	0.00100	units	1	BGI0681	09/22/23	09/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.7		%	1	BGI0560	09/19/23	09/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.09	0.0100	mmhos/cm	1	BGI0632	09/21/23	09/21/23	EPA 120.1	

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

Date Sampled: **09/14/23 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BGI0631	09/21/23	09/21/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

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 BGI0507 - EPA 5030 Soil MS

Blank (BGI0507-BLK1)

Prepared: 09/18/23 Analyzed: 09/20/23

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>	0.0390		"	0.0400		97.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.5	50-150			

LCS (BGI0507-BS1)

Prepared: 09/18/23 Analyzed: 09/20/23

Benzene	0.103	0.0020	mg/kg	0.100	103	70-130				
Toluene	0.101	0.0050	"	0.100	101	70-130				
Ethylbenzene	0.0991	0.0050	"	0.100	99.1	70-130				
m,p-Xylene	0.199	0.010	"	0.200	99.4	70-130				
o-Xylene	0.101	0.0050	"	0.100	101	70-130				
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	104	70-130				
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100	102	70-130				
Naphthalene	0.0914	0.0038	"	0.100	91.4	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0387		"	0.0400	96.8	50-150				
<i>Surrogate: Toluene-d8</i>	0.0404		"	0.0400	101	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0408		"	0.0400	102	50-150				

Matrix Spike (BGI0507-MS1)

Source: 2309266-01

Prepared: 09/18/23 Analyzed: 09/20/23

Benzene	0.0880	0.0020	mg/kg	0.100	ND	88.0	70-130			
Toluene	0.0800	0.0050	"	0.100	ND	80.0	70-130			
Ethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	70-130			
m,p-Xylene	0.145	0.010	"	0.200	ND	72.7	70-130			
o-Xylene	0.0761	0.0050	"	0.100	ND	76.1	70-130			
1,2,4-Trimethylbenzene	0.0649	0.0050	"	0.100	ND	64.9	70-130			QM-07
1,3,5-Trimethylbenzene	0.0685	0.0050	"	0.100	ND	68.5	70-130			QM-07
Naphthalene	0.0616	0.0038	"	0.100	ND	61.6	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0403		"	0.0400	101	50-150				
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400	99.4	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0395		"	0.0400	98.8	50-150				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

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 BGI0507 - EPA 5030 Soil MS

Matrix Spike Dup (BGI0507-MSD1)	Source: 2309266-01			Prepared: 09/18/23 Analyzed: 09/20/23						
Benzene	0.0830	0.0020	mg/kg	0.100	ND	83.0	70-130	5.89	30	
Toluene	0.0766	0.0050	"	0.100	ND	76.6	70-130	4.37	30	
Ethylbenzene	0.0776	0.0050	"	0.100	ND	77.6	70-130	2.78	30	
m,p-Xylene	0.152	0.010	"	0.200	ND	75.8	70-130	4.14	30	
o-Xylene	0.0779	0.0050	"	0.100	ND	77.9	70-130	2.34	30	
1,2,4-Trimethylbenzene	0.0708	0.0050	"	0.100	ND	70.8	70-130	8.66	30	
1,3,5-Trimethylbenzene	0.0732	0.0050	"	0.100	ND	73.2	70-130	6.60	30	
Naphthalene	0.0658	0.0038	"	0.100	ND	65.8	70-130	6.45	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.8	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

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 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D
 Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

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 BGI0514 - EPA 3550A

Blank (BGI0514-BLK1)

Prepared: 09/18/23 Analyzed: 09/19/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		92.1	30-150				

LCS (BGI0514-BS1)

Prepared: 09/18/23 Analyzed: 09/19/23

C10-C28 (DRO)	440	50	mg/kg	500		88.1	70-130				
Surrogate: <i>o</i> -Terphenyl	11.3		"	12.5		90.2	30-150				

Matrix Spike (BGI0514-MS1)

Source: 2309266-01

Prepared: 09/18/23 Analyzed: 09/19/23

C10-C28 (DRO)	455	50	mg/kg	500	25.5	85.9	70-130				
Surrogate: <i>o</i> -Terphenyl	8.54		"	12.5		68.3	30-150				

Matrix Spike Dup (BGI0514-MSD1)

Source: 2309266-01

Prepared: 09/18/23 Analyzed: 09/19/23

C10-C28 (DRO)	336	50	mg/kg	500	25.5	62.0	70-130	30.2	20		QM-07
Surrogate: <i>o</i> -Terphenyl	7.88		"	12.5		63.0	30-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D
Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

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 BGI0585 - EPA 5030 Soil MS

Blank (BGI0585-BLK1)

Prepared & Analyzed: 09/20/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0450</i>		"	<i>0.0333</i>		<i>135</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0330</i>		"	<i>0.0333</i>		<i>98.9</i>		<i>40-150</i>		

LCS (BGI0585-BS1)

Prepared & Analyzed: 09/20/23

Acenaphthene	0.0333	0.00500	mg/kg	0.0333		99.8		31-137		
Anthracene	0.0329	0.00500	"	0.0333		98.6		30-120		
Benzo (a) anthracene	0.0318	0.00500	"	0.0333		95.3		30-120		
Benzo (a) pyrene	0.0331	0.00500	"	0.0333		99.4		30-120		
Benzo (b) fluoranthene	0.0342	0.00500	"	0.0333		103		30-120		
Benzo (k) fluoranthene	0.0344	0.00500	"	0.0333		103		30-120		
Chrysene	0.0327	0.00500	"	0.0333		98.2		30-120		
Dibenz (a,h) anthracene	0.0303	0.00500	"	0.0333		91.0		30-120		
Fluoranthene	0.0353	0.00500	"	0.0333		106		30-120		
Fluorene	0.0338	0.00500	"	0.0333		101		30-120		
Indeno (1,2,3-cd) pyrene	0.0232	0.00500	"	0.0333		69.5		30-120		
Pyrene	0.0326	0.00500	"	0.0333		97.7		35-142		
1-Methylnaphthalene	0.0382	0.00500	"	0.0333		115		35-142		
2-Methylnaphthalene	0.0320	0.00500	"	0.0333		96.1		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0317</i>		"	<i>0.0333</i>		<i>95.0</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0351</i>		"	<i>0.0333</i>		<i>105</i>		<i>40-150</i>		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

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 BGI0585 - EPA 5030 Soil MS

Matrix Spike (BGI0585-MS1)	Source: 2309270-01			Prepared & Analyzed: 09/20/23						
Acenaphthene	0.0222	0.00500	mg/kg	0.0333	ND	66.7	31-137			
Anthracene	0.0217	0.00500	"	0.0333	ND	65.1	30-120			
Benzo (a) anthracene	0.0206	0.00500	"	0.0333	ND	61.8	30-120			
Benzo (a) pyrene	0.0217	0.00500	"	0.0333	ND	65.2	30-120			
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.3	30-120			
Benzo (k) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.2	30-120			
Chrysene	0.0230	0.00500	"	0.0333	ND	68.9	30-120			
Dibenz (a,h) anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120			
Fluoranthene	0.0231	0.00500	"	0.0333	ND	69.2	30-120			
Fluorene	0.0231	0.00500	"	0.0333	ND	69.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0210	0.00500	"	0.0333	ND	62.9	30-120			
Pyrene	0.0238	0.00500	"	0.0333	ND	71.4	35-142			
1-Methylnaphthalene	0.0270	0.00500	"	0.0333	ND	81.0	15-130			
2-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.1	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0216</i>		<i>"</i>	<i>0.0333</i>		<i>64.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0219</i>		<i>"</i>	<i>0.0333</i>		<i>65.8</i>	<i>40-150</i>			

Matrix Spike Dup (BGI0585-MSD1)	Source: 2309270-01			Prepared & Analyzed: 09/20/23						
Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.8	31-137	33.0	30	QR-02
Anthracene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	37.4	30	QR-02
Benzo (a) anthracene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	29.5	30	
Benzo (a) pyrene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	39.1	30	QR-02
Benzo (b) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	34.0	30	QR-02
Benzo (k) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.4	30-120	29.1	30	
Chrysene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	21.5	30	
Dibenz (a,h) anthracene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	34.7	30	QR-02
Fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	38.8	30	QR-02
Fluorene	0.0168	0.00500	"	0.0333	ND	50.5	30-120	31.4	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	30.7	30	QR-02
Pyrene	0.0193	0.00500	"	0.0333	ND	57.8	35-142	21.1	30	
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	55.0	15-130	38.2	50	
2-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.1	15-130	30.4	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0202</i>		<i>"</i>	<i>0.0333</i>		<i>60.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0142</i>		<i>"</i>	<i>0.0333</i>		<i>42.5</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

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 BGI0510 - EPA 3050B

Blank (BGI0510-BLK1)

Prepared: 09/18/23 Analyzed: 09/20/23

Boron ND 0.0100 mg/L

LCS (BGI0510-BS1)

Prepared: 09/18/23 Analyzed: 09/20/23

Boron 4.74 0.0100 mg/L 5.00 94.9 80-120

Duplicate (BGI0510-DUP1)

Source: 2309265-01

Prepared: 09/18/23 Analyzed: 09/20/23

Boron 0.137 0.0100 mg/L 0.153 10.9 20

Matrix Spike (BGI0510-MS1)

Source: 2309265-01

Prepared: 09/18/23 Analyzed: 09/20/23

Boron 4.35 0.0100 mg/L 5.00 0.153 84.0 75-125

Matrix Spike Dup (BGI0510-MSD1)

Source: 2309265-01

Prepared: 09/18/23 Analyzed: 09/20/23

Boron 4.49 0.0100 mg/L 5.00 0.153 86.7 75-125 3.04 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0383 - EPA 3050B

Blank (BGI0383-BLK1)

Prepared: 09/13/23 Analyzed: 09/18/23

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BGI0383-BS1)

Prepared: 09/13/23 Analyzed: 09/18/23

Arsenic	37.8	0.200	mg/kg wet	40.0	94.6	80-120
Barium	37.5	0.400	"	40.0	93.7	80-120
Cadmium	1.90	0.200	"	2.00	95.1	80-120
Copper	37.9	0.400	"	40.0	94.7	80-120
Lead	23.0	0.200	"	20.0	115	80-120
Nickel	33.8	0.400	"	40.0	84.6	80-120
Silver	1.90	0.0200	"	2.00	95.0	80-120
Zinc	34.6	0.400	"	40.0	86.4	80-120

Duplicate (BGI0383-DUP1)

Source: 2308577-01

Prepared: 09/13/23 Analyzed: 09/18/23

Arsenic	1.11	0.200	mg/kg dry	1.25	12.1	20	
Barium	35.2	0.400	"	40.7	14.5	20	
Cadmium	0.116	0.200	"	0.139	17.3	20	
Copper	4.70	0.400	"	5.94	23.3	20	QR-04
Lead	5.87	0.200	"	5.88	0.238	20	
Nickel	1.75	0.400	"	1.74	0.467	20	
Silver	0.0397	0.0200	"	0.0501	23.1	20	QR-01
Zinc	15.8	0.400	"	15.5	2.26	20	
Selenium	ND	0.260	"	ND		200	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0383 - EPA 3050B

Matrix Spike (BGI0383-MS1)

Source: 2308577-01

Prepared: 09/13/23 Analyzed: 09/18/23

Arsenic	27.2	0.200	mg/kg dry	45.2	1.25	57.6	75-125				QM-07
Barium	56.3	0.400	"	45.2	40.7	34.5	75-125				QM-07
Cadmium	1.47	0.200	"	2.26	0.139	59.1	75-125				QM-07
Copper	28.1	0.400	"	45.2	5.94	49.0	75-125				QM-07
Lead	18.6	0.200	"	22.6	5.88	56.4	75-125				QM-07
Nickel	25.7	0.400	"	45.2	1.74	53.1	75-125				QM-07
Silver	1.38	0.0200	"	2.26	0.0501	59.0	75-125				QM-07
Zinc	38.9	0.400	"	45.2	15.5	52.0	75-125				QM-07

Matrix Spike Dup (BGI0383-MSD1)

Source: 2308577-01

Prepared: 09/13/23 Analyzed: 09/18/23

Arsenic	34.8	0.200	mg/kg dry	45.2	1.25	74.4	75-125	24.5	25		QM-07
Barium	83.8	0.400	"	45.2	40.7	95.3	75-125	39.3	25		QM-07
Cadmium	1.85	0.200	"	2.26	0.139	75.8	75-125	22.7	25		
Copper	37.2	0.400	"	45.2	5.94	69.3	75-125	28.1	25		QM-07
Lead	23.1	0.200	"	22.6	5.88	76.4	75-125	21.7	25		
Nickel	31.7	0.400	"	45.2	1.74	66.4	75-125	20.9	25		QM-07
Silver	1.72	0.0200	"	2.26	0.0501	74.1	75-125	22.0	25		QM-07
Zinc	51.5	0.400	"	45.2	15.5	79.8	75-125	27.8	25		QM-07

Summit Scientific

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Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0616 - 3060A Mod

Blank (BGI0616-BLK1)

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0616-BS1)

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent 27.0 0.30 mg/kg wet 25.0 108 80-120

Duplicate (BGI0616-DUP1)

Source: 2309254-01

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0616-MS1)

Source: 2309254-01

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent 27.2 0.30 mg/kg dry 27.2 ND 100 75-125

Matrix Spike Dup (BGI0616-MSD1)

Source: 2309254-01

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent 27.2 0.30 mg/kg dry 27.2 ND 99.8 75-125 0.200 20

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Fremont Environmental
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Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

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 BGI0578 - General Preparation

Blank (BGI0578-BLK1)

Prepared: 09/20/23 Analyzed: 09/22/23

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

LCS (BGI0578-BS1)

Prepared: 09/20/23 Analyzed: 09/22/23

Calcium	5.10	0.0500	mg/L wet	5.00		102	70-130			
Magnesium	5.05	0.0500	"	5.00		101	70-130			
Sodium	5.22	0.0500	"	5.00		104	70-130			

Summit Scientific

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Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

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

Summit Scientific

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

Batch BGI0560 - General Preparation

Duplicate (BGI0560-DUP1)

Source: 2309266-01

Prepared & Analyzed: 09/19/23

% Solids	97.7		%		97.0			0.771	20	
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Fremont Environmental
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Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

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 BGI0632 - General Preparation

Blank (BGI0632-BLK1)

Prepared & Analyzed: 09/21/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0632-BS1)

Prepared & Analyzed: 09/21/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGI0632-DUP1)

Source: 2309261-01

Prepared & Analyzed: 09/21/23

Specific Conductance (EC) 0.438 0.0100 mmhos/cm 0.438 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:18

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 BGI0631 - General Preparation

LCS (BGI0631-BS1)

Prepared & Analyzed: 09/21/23

pH 9.28 pH Units 9.18 101 95-105

Duplicate (BGI0631-DUP1)

Source: 2309261-01

Prepared & Analyzed: 09/21/23

pH 8.10 pH Units 8.10 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-04D

Project Number: UWRWE-A3316-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:18

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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