

FREMONT ENVIRONMENTAL INC.

March 3, 2024

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

Subject: **Flowline Closure Data Submittal**
Donaldson USX EE29-06D
API # 05-123-33669
SWNW Sec. 29, T7N, R65W
Weld County, Colorado
Fremont Project No. C023-249
Remediation # 29728

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline closure activities for the Noble Energy Inc. (Noble) Donaldson USX EE29-06D. Impacted soil was encountered during abandonment activities. Details of the Donaldson USX EE29-06D 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

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Donaldson USX EE29-06D		Date: 09/14/2023		Remediation Project #: 29728				
Associated Wells: API:05-123-33669		Age of Site: 2011		Number of Photos Attached: 6				
Starting point: (GPS coordinates and descriptions) 40.549529, -104.695092								
End point: (GPS coordinates and descriptions) 40.549401, -104.691890								
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) Impacted soils encountered and 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) None observed								
Flowlines								
Flowline type	OIL/Water/Gas							
Depth	5'- 6'							
Age	2011							
Length	982'							
Construction Material	Steel							
Were flowlines pulled?	Yes							
Visual Integrity of lines	Good							
Visual impacts if trenched	N/A							
PID Readings if trenched	N/A							
Sample taken? Location/Sample ID#	Yes, see attached							
Photo Number(s)	See attached							
Other observations regarding on location flowlines:								
Summary								
Was impacted soil identified? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards								
Total number of samples field screened: 5				Total number of samples collected: 6				
Highest PID Reading: 342ppm (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: Unknown				Estimated spill volume: Unknown				
Lateral extent: Unknown				Volume of soil removed: Unknown				
Is additional investigation required? Yes, Site investigation required.								
Was groundwater encountered during the investigation? <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								
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes <input type="checkbox"/> No <input type="checkbox"/>				
Date Groundwater was encountered:				Commencement date of removal:				
Sheen on groundwater?		<input type="checkbox"/>	Yes	<input type="checkbox"/>	No			
Free product observed?		<input type="checkbox"/>	Yes	<input type="checkbox"/>	No			
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.
DONALDSON USX EE29-06D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-249

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	12	670	160

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.
DONALDSON USX EE29-06D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-249

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	0.0135	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0164	<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.
DONALDSON USX EE29-06D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-249

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	7.80	0.312	0.241	0.117
BKG01 5'	09/14/2023	5.0 FT	8.08	1.14	2.10	0.266

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.
DONALDSON USX EE29-06D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-249

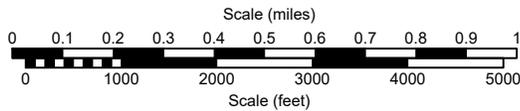
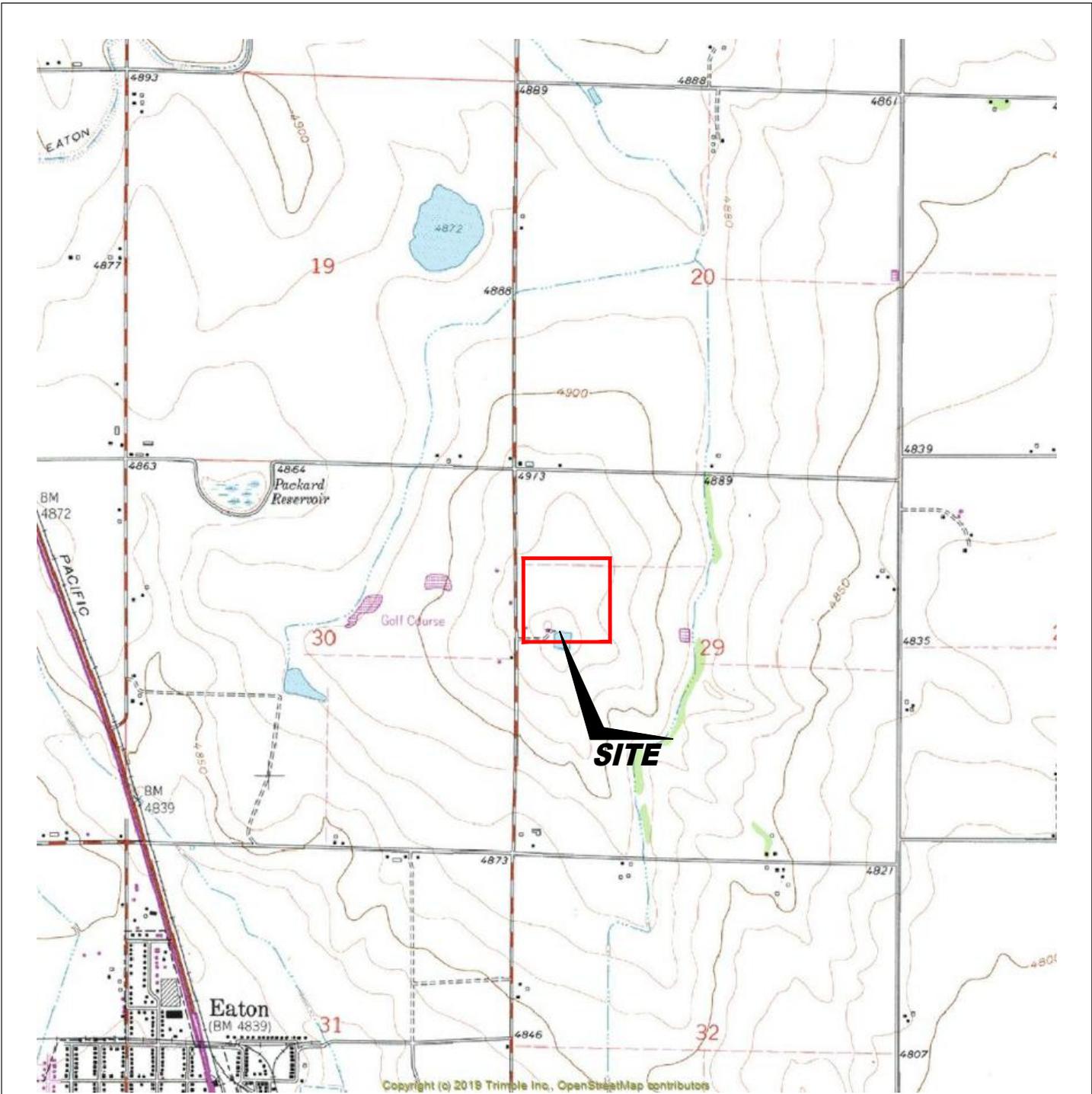
Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (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	1.83	109	0.275	<0.30	5.87	7.03	5.12	<0.260	0.0282	21.5
BKG01 5'	09/14/2023	5.0 FT	3.20	127	0.392	<0.30	7.26	8.85	5.88	<0.260	0.0358	25.5

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



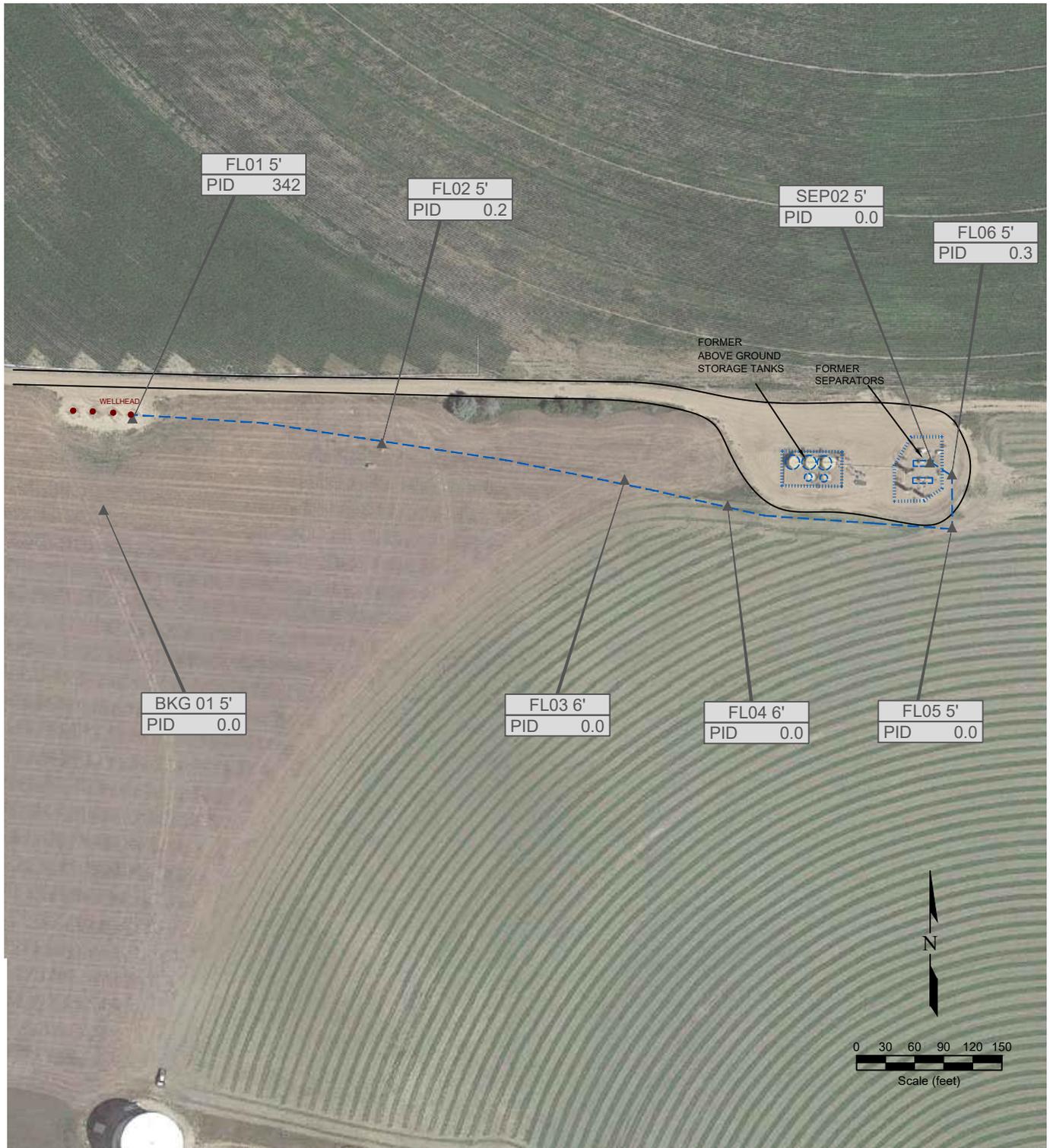
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
DONALDSON USX EE29-06D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
Weld County, Colorado
40.549550°, -104.695090°

Project # C023-249	API # 05-123-33669	Facility #
Date 4/9/24	Remediation # 29728	Filename 23249T





LEGEND

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

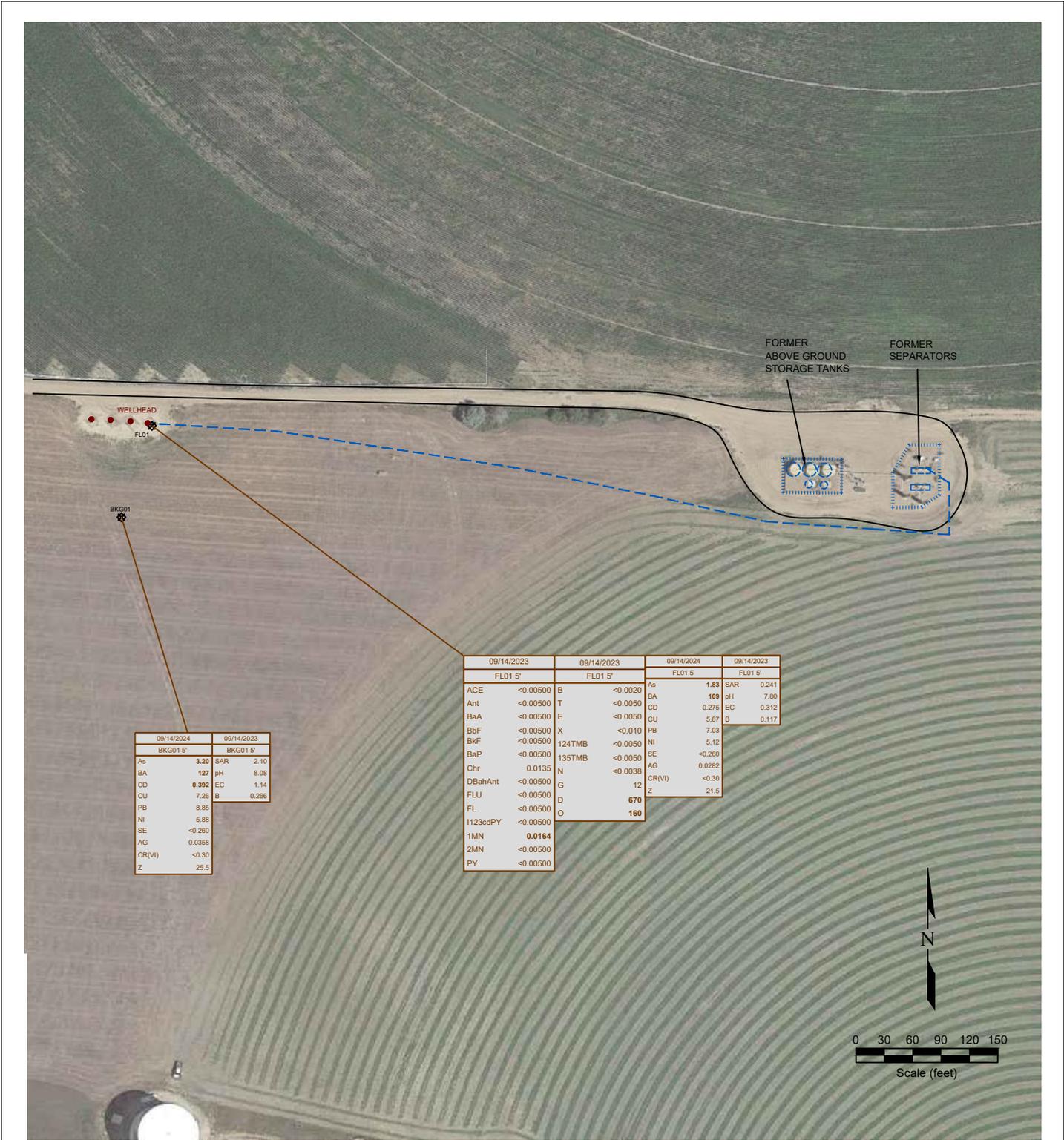
Figure 2
SITE MAP

DONALDSON USX EE29-06D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
Weld County, Colorado
40.549550°, -104.695090°

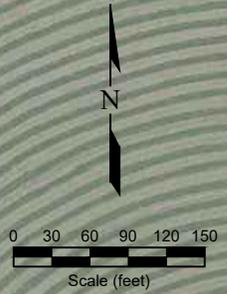
Project No. C023-249	API # 05-123-33669	Facility #
Date 5/13/24	Remediation # 29728	Filename 23249Q





09/14/2024		09/14/2023	
BKG01 5'		BKG01 5'	
As	3.20	SAR	2.10
BA	127	pH	8.08
CD	0.392	EC	1.14
CU	7.26	B	0.268
PB	8.85		
Ni	5.88		
SE	<-0.260		
AG	0.0358		
CR(VI)	<-0.30		
Z	25.5		

09/14/2023		09/14/2023		09/14/2024		09/14/2023	
FL01 5'		FL01 5'		FL01 5'		FL01 5'	
ACE	<-0.00500	B	<-0.0020	As	1.83	SAR	0.241
Ant	<-0.00500	T	<-0.0050	BA	109	pH	7.80
BaA	<-0.00500	E	<-0.0050	CD	0.275	EC	0.312
BbF	<-0.00500	X	<-0.010	CU	5.87	B	0.117
BkF	<-0.00500	124TMB	<-0.0050	PB	7.03		
BaP	<-0.00500	135TMB	<-0.0050	Ni	5.12		
Chr	0.0135	N	<-0.0038	SE	<-0.260		
DBahAnt	<-0.00500	G	12	AG	0.0282		
FLU	<-0.00500	D	670	CR(VI)	<-0.30		
FL	<-0.00500	O	160	Z	21.5		
1123cdPY	<-0.00500						
1MN	0.0164						
2MN	<-0.00500						
PY	<-0.00500						



LEGEND

- WELL HEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ⊗ ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER FLOWLINE
- FENCE LINE
- CONTAINMENT BERM

DATE	SAMPLE ID and DEPTH (ft)	DATE	SAMPLE ID and DEPTH (ft)
03/24/2021	N Wall @ 3'	01/22/21	N Wall @ 1'
ACE	<-0.005	SAR	83.78
Ant	<-0.005	pH	9.4
BaA	<-0.005	EC	3.34
BbF	<-0.005	BORON	5.4
BaP	<-0.005		
Chr	<-0.005		
DBahAnt	<-0.005		
FLU	<-0.005		
FL	<-0.005		
1,1,2,3cdPY	<-0.005		
1-MN	<-0.005		
2-MN	<-0.005		
PY	<-0.005		

Figure 3
SOIL CHEMISTRY MAP
DONALDSON USX EE29-06D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
 Weld County, Colorado
 40.549550°, -104.695090°

Project No. C023-249	API # 05-123-33669	Facility #
Date 4/9/24	Remediation # 29728	Filename 23249Q



LEGEND

● WELL HEAD LOCATION	AST ABOVE GROUND STORAGE TANK	FORMER FACILITY	FORMER FLOWLINE
■ PROPOSED EXCAVATION			— FENCE LINE
			CONTAINMENT BERM

Figure 4
PROPOSED EXCAVATION MAP
DONALDSON USX EE29-06D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
 Weld County, Colorado
 40.549550°, -104.695090°

Project No. C023-249	API # 05-123-33669	Facility #
Date 4/9/24	Remediation # 29728	Filename 23249Q



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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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 - Donaldson USX EE 29-06D

Work Order #2309271

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 - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 5'	2309271-01	Soil	09/14/23 11:28	09/14/23 16:30
BKG01 5'	2309271-02	Soil	09/14/23 11:50	09/14/23 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.



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

Lab ID	Page 1 of 1
2309271	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henchan	Company: Noble	
Address:	E-Mail: Fremont Distribution List	Project Name/Location: Donaldson USX EE29-06D	
City/State/Zip:		AFE#:	
Phone: 303-261-6246	Project Name: Donaldson USX EE29-06D	PO/Billing Codes: UWRWE-A2147-ABN	
Sampler Name: Stanley Gilbert	Project Number:	Contact: Mike Montoya	

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)	
1	FLO1 5'	9/14/23	11:28	2			X			X			X	X	X	X		
2	BK601 5'	L	11:50	1			X			X			X	X	X			
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <i>Stanley Gilbert</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: JJ	Date/Time: 9/14/23 16:30	Received by: <i>[Signature]</i>	Date/Time: 9/14/23 16:30	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 9.3	Corrected Temperature: 9	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2309271

Client: Fremont

Client Project ID: Donaldson USX EE29-060

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

⁽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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

FL01 5'
2309271-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	12	0.50	"	"	"	"	"	"	

Date Sampled: **09/14/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0422	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0610	153 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	670	50	mg/kg	1	BGI0514	09/18/23	09/19/23	EPA 8015M	
C28-C36 (ORO)	160	50	"	"	"	"	"	"	

Date Sampled: **09/14/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.52	68.2 %	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 - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

FL01 5'
2309271-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:28**

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	0.0135	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	0.0164	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/14/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0290	87.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.117	0.0100	mg/L	1	BGI0510	09/18/23	09/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:28**

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 - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

FL01 5'
2309271-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.83	0.200	mg/kg dry	1	BGI0383	09/14/23	09/18/23	EPA 6020B	
Barium	109	0.400	"	"	"	"	"	"	
Cadmium	0.275	0.200	"	"	"	"	"	"	
Copper	5.87	0.400	"	"	"	"	"	"	
Lead	7.03	0.200	"	"	"	"	"	"	
Nickel	5.12	0.400	"	"	"	"	"	"	
Silver	0.0282	0.0200	"	"	"	"	"	"	
Zinc	21.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:28**

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 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.8	0.0608	mg/L dry	1	BGI0578	09/20/23	09/22/23	EPA 6020B	
Magnesium	13.6	0.0608	"	"	"	"	"	"	
Sodium	7.02	0.0608	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.241	0.00100	units	1	BGI0681	09/22/23	09/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

FL01 5'
2309271-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.3	%	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 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.312	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 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BGI0631	09/21/23	09/21/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

BKG01 5'
2309271-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	0.266	0.0100		mg/L	1	BGI0510	09/18/23	09/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.20	0.200		mg/kg dry	1	BGI0383	09/14/23	09/18/23	EPA 6020B	
Barium	127	0.400		"	"	"	"	"	"	
Cadmium	0.392	0.200		"	"	"	"	"	"	
Copper	7.26	0.400		"	"	"	"	"	"	
Lead	8.85	0.200		"	"	"	"	"	"	
Nickel	5.88	0.400		"	"	"	"	"	"	
Silver	0.0358	0.0200		"	"	"	"	"	"	
Zinc	25.5	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:50**

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 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	61.9	0.0613		mg/L dry	1	BGI0578	09/20/23	09/22/23	EPA 6020B	
Magnesium	35.3	0.0613		"	"	"	"	"	"	
Sodium	83.6	0.0613		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Donaldson USX EE 29-06D
 Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

BKG01 5'
2309271-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/14/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.10	0.00100	units	1	BGI0681	09/22/23	09/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BGI0560	09/19/23	09/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.14	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 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BGI0631	09/21/23	09/21/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		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 - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.7</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			

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Project: Noble - Donaldson USX EE 29-06D
 Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

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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Wellington CO, 80549

Project: Noble - Donaldson USX EE 29-06D
Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

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>"</i>	<i>0.0333</i>		<i>135</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0330</i>		<i>"</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>"</i>	<i>0.0333</i>		<i>95.0</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0351</i>		<i>"</i>	<i>0.0333</i>		<i>105</i>		<i>40-150</i>		

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Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

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 - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

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	

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 Wellington CO, 80549

Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

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

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Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Summit Scientific

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Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

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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 Wellington CO, 80549

Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

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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Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

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 - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:21

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

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Wellington CO, 80549

Project: Noble - Donaldson USX EE 29-06D

Project Number: UWRWE-A2147-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:21

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- 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