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 EE29-12D
API # 05-123-33674
SWNW Sec. 29, T7N, R65W
Weld County, Colorado
Fremont Project No. C023-250
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 EE29-12D. Impacted soil was not encountered during abandonment activities. Details of the Donaldson USX EE29-12D 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:	*Date:*	*Remediation Project #:*
DONALDSON USX EE29-12D	09/14/2023	29728
Associated Wells:	*Age of Site:*	*Number of Photos Attached:*
API:05-123-33674	2011	6

Starting point: *(GPS coordinates and descriptions)*
40.54539, -104.695334

End point: *(GPS coordinates and descriptions)*
40.549404, -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

Flowline type	OIL/Water/Gas							
Depth	5'- 6'							
Age	2011							
Length	1053'							
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 loction 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: 1.0ppm (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.
DONALDSON USX EE29-12D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-250

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.
DONALDSON USX EE29-12D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-250

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.

DONALDSON USX EE29-12D, WELD COUNTY, COLORADO

FREMONT PROJECT NO. C023-250

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	7.97	0.466	0.530	0.174
BKG01 5'	09/14/2023	5.0 FT	8.00	0.736	0.776	0.159

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 EE29-12D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-250

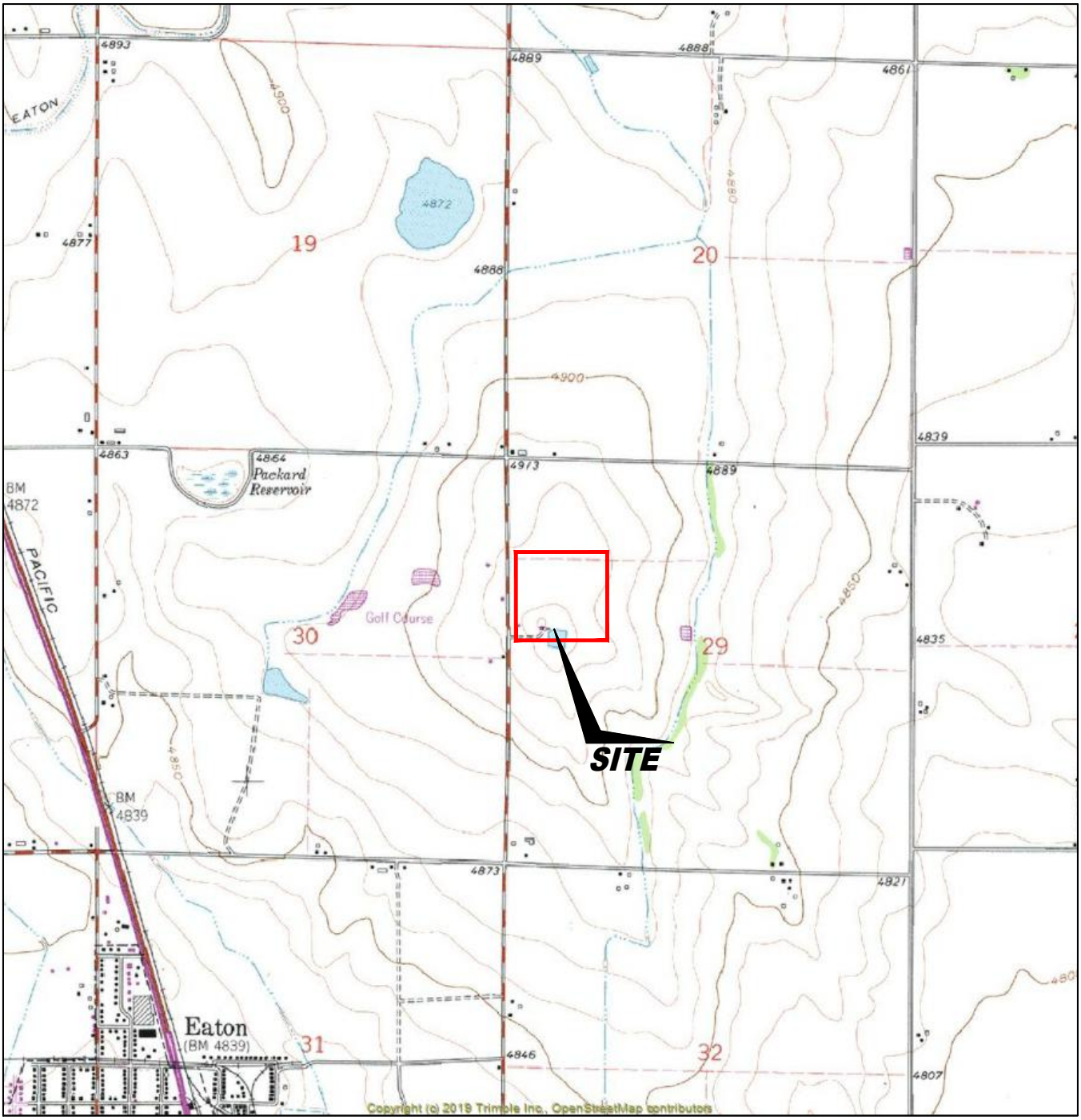
Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (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	**1.13**	**126**	0.359	<0.30	2.99	12.1	2.75	*<0.260*	0.0421	12.2
BKG01 5'	09/14/2023	5.0 FT	**1.01**	**334**	0.302	<0.30	11.5	11.7	2.54	*<0.260*	0.0421	11.9

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



N

Scale (miles)
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
0 1000 2000 3000 4000 5000
Scale (feet)

USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

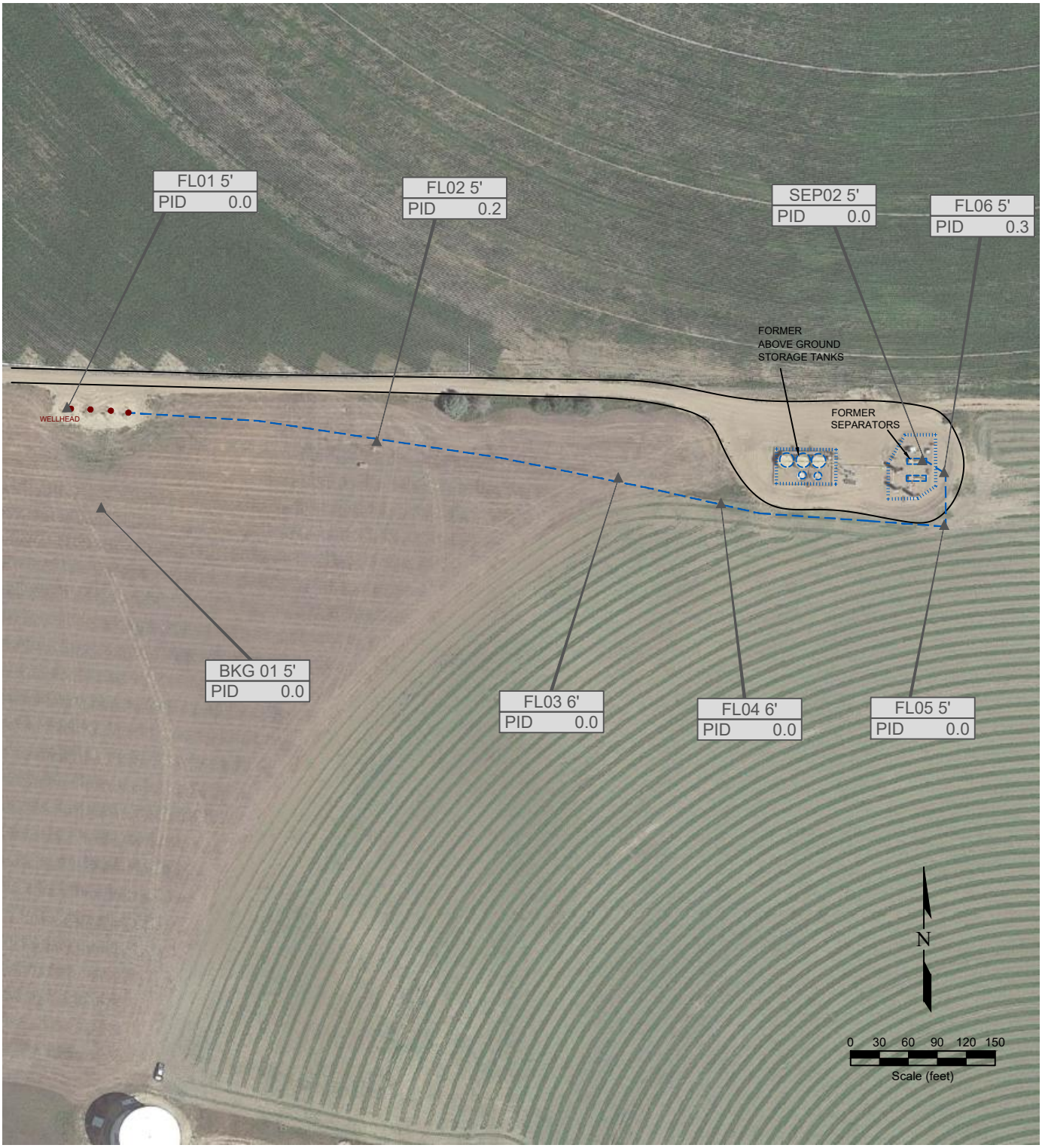
Figure 1
SITE LOCATION MAP

DONALDSON USX EE29-12D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
Weld County, Colorado
40.549550°, -104.695330°

Project #	API #	Facility #
C023-250	**05-123-33674**	
Date	Remediation #	Filename
4/9/24	**29728**	**23250T**

FREMONT ENVIRONMENTAL



LEGEND

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

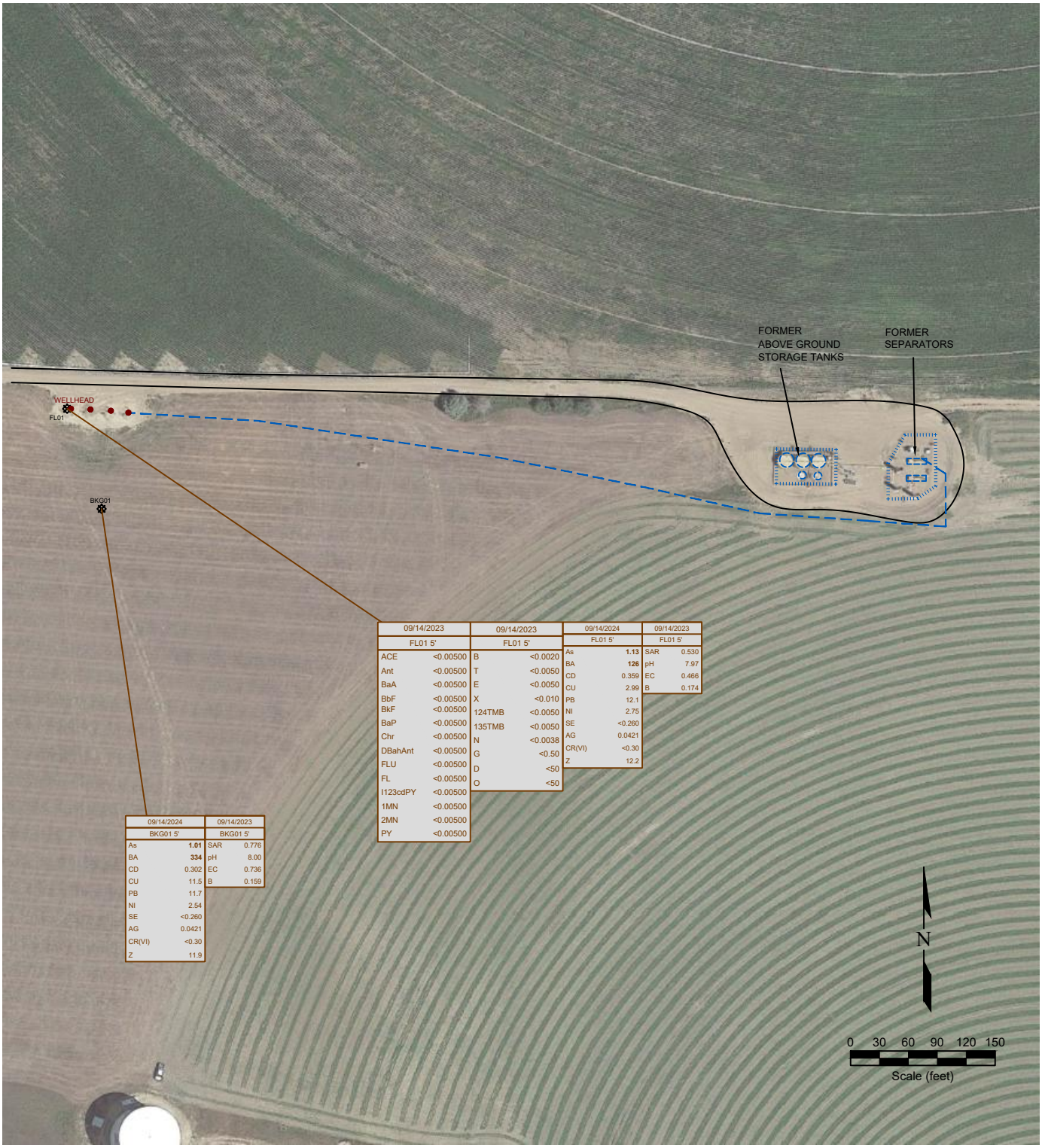
Figure 2
SITE MAP

DONALDSON USX EE29-12D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
Weld County, Colorado
40.549550°, -104.695330°

Project No.	API #	Facility #
C023-250	**05-123-33674**	
Date	Remediation #	Filename
5/13/24	**29728**	**23250Q1**

FREMONT ENVIRONMENTAL



LEGEND

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

03/24/2021	
N Wall @ 3'	
ACE	<0.005
Ant	<0.005
BaA	<0.005
BbF	<0.005
BkF	<0.005
BaP	<0.005
Chr	<0.005
DBahAnt	<0.005
FLU	<0.005
FL	<0.005
I 1,2,3cdPY	<0.005
1-MN	<0.005
2-MN	<0.005
PY	<0.005

DATE SAMPLED
SAMPLE ID and DEPTH (ft)
ACENAPHTHENE (mg/kg)
ANTHRACENE (mg/kg)
BENZO (A) ANTHRACENE (mg/kg)
BENZO (B) FLUORANTHENE (mg/kg)
BENZO (K) FLUORANTHENE(mg/kg)
BENZO (A) PYRENE (mg/kg)
CHRYSENE (mg/kg)
DIBENZ (A,H) ANTHRACENE (mg/kg)
FLUORANTHENE (mg/kg)
FLUORENE (mg/kg)
INDENO (1,2,3-CD) PYRENE(mg/kg)
1-METHYLNAPHTHALENE (mg/kg)
2-METHYLNAPHTHALENE (mg/kg)
PYRENE (mg/kg)

DATE	
ID and Depth	
B	<0.0020
T	<0.0050
E	<0.0050
X	<0.010
1,2,4-TB	<0.0050
1,3,5-TB	<0.0050
N	<0.010
G	<0.50
D	<50
O	<50

DATE SAMPLED
SAMPLE ID and DEPTH (ft)
BENZENE (mg/kg)
TOLUENE (mg/kg)
ETHYLBENZENE (mg/kg)
TOTAL XYLENES (mg/kg)
1,2,4-TRIMETHYLBENZENE (mg/kg)
1,3,5-TRIMETHYLBENZENE (mg/kg)
NAPHTHALENE (mg/kg)
TPH-GRO (mg/kg)
TPH-DRO (mg/kg)
TPH-ORO (mg/kg)

01/22/21	
N Wall @ 1'	
SAR	53.76
pH	9.4
EC	3.34
BORON	5.4

DATE SAMPLED
SAMPLE ID & DEPTH (ft)
SAR (units)
pH (pH units)
EC (mmhos/cm)
BORON (mg/L)

08/16/2022	
K-22-3-N-3 (3')	
As	2.41
BA	28.0
Cd	<0.0945
Cu	<9.45
Pb	150
Ni	<9.45
Se	0.135
Ag	<0.0945
Zn	<94.5
Cr(VI)	<0.486

DATE SAMPLED
SAMPLE ID & DEPTH (ft)
ARSENIC (mg/kg)
BARIUM (mg/kg)
CADMIUM (mg/kg)
COPPER (mg/kg)
LEAD (mg/kg)
NICKEL (mg/kg)
SELENIUM (mg/kg)
SILVER (mg/kg)
ZINC (mg/kg)
CHROMIUM (mg/kg)

Figure 3

SOIL CHEMISTRY MAP

DONALDSON USX EE29-12D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
Weld County, Colorado
40.549550°, -104.695330°

Project No.	API #	Facility #
C023-250	**05-123-33674**	
Date	Remediation #	Filename
4/9/24	**29728**	**23250Q1**

FREMONT ENVIRONMENTAL

Photo Log

Description:

#1 - FL01 5' - No visual staining or odor

Photo Log

FREMONT ENVIRONMENTAL

Description:

#2 - FL02 5' - No visual staining or odor. Flowline is common trenched with three other flowlines

Photo Log

FREMONT ENVIRONMENTAL

Description:

#3 - FL03 6' - No visual staining or odor. Flowline is common trenched with three other flowlines

Photo Log

FREMONT ENVIRONMENTAL

Description:

#4 - FL04 6' - No visual staining or odor. Flowline is common trenched with three other flowlines

Photo Log

FREMONT ENVIRONMENTAL

Description:

#5 - FL05 5' - No visual staining or odor. Flowline is common trenched with three other flowlines

Photo Log

FREMONT ENVIRONMENTAL

Description:

#6 - FL06 5' - No visual staining or odor. Flowline is common trenched with three other flowlines

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

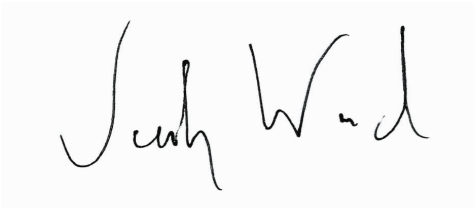
September 25, 2023

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Donaldson USX EE 29-12D
Work Order #2309269

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,



Jacob Wood For Paul Shrewsbury
President

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 5'	2309269-01	Soil	09/14/23 11:42	09/14/23 16:30
BKG01 5'	2309269-02	Soil	09/14/23 11:55	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.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2309269	

	Send Data To:	Send Invoice To:
Client: Fremont Enviormental	Project Manager: Paul Henehan	Company: Noble
Address:	E-Mail: Fremont Distribution List	Project Name/Location: Donaldson USX EE 29-12D
City/State/Zip:		AFE#:
Phone: 303-261-6246	Project Name: Donaldson USX EE 29-12D	PO/Billing Codes: WWRWE-A2620-ABN
Sampler Name: Stanley Gilbert	Project Number:	Contact: Mike Montoya

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	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	FL01 5'	9/14/23	11:42	2			X			X			X	X	X	X	X				
2	BHG01 5'	1	11:55	1			X			X						X	X				
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
[signature]	9/14/23 16:00	Summit North	9/14/23 16:00
Relinquished by:	Date/Time:	Received by:	Date/Time:
SZ	91423 1630	[signature]	91423 1630
Relinquished by:	Date/Time:	Received by:	Date/Time:

TAT Business Days	
Same Day	
1 Day	
2 Days	
3 Days	
Standard	X

Field DO	
Field EC	
Field ORP	
Field pH	
Field Temp.	
Field Turb.	

Notes:

Temperature Upon Receipt: 9.3 | Corrected Temperature: 0 | IR gun #: 1 | HNO3 lot #:

S2

Sample Receipt Checklist

S2 Work Order# 2309269

Client: Fremont Client Project ID: Donaldson USX EE 29-12D

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 timestamps
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_2SO_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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

FL01 5'

2309269-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGI0506	09/18/23	09/19/23	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 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0326	*81.6 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0400	*100 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0375	*93.8 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:42**

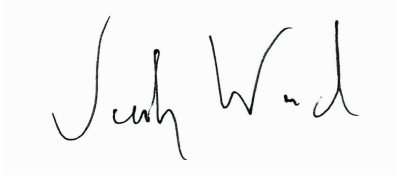
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0513	09/18/23	09/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/14/23 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.11	*64.9 %*	*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 - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

FL01 5'

2309269-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0541	09/19/23	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 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0150	*45.0 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	*43.4 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	**0.174**	0.0100	mg/L	1	BGI0510	09/18/23	09/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:42**

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.

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

FL01 5'

2309269-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.13**	0.200	mg/kg dry	1	BGI0490	09/18/23	09/19/23	EPA 6020B	
Barium	**126**	0.400	"	"	"	"	"	"	
Cadmium	**0.359**	0.200	"	"	"	"	"	"	
Copper	**2.99**	0.400	"	"	"	"	"	"	
Lead	**12.1**	0.200	"	"	"	"	"	"	
Nickel	**2.75**	0.400	"	"	"	"	"	"	
Silver	**0.0421**	0.0200	"	"	"	"	"	"	
Zinc	**12.2**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0614	09/20/23	09/21/23	EPA 7196A	

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

Date Sampled: **09/14/23 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**50.3**	0.0605	mg/L dry	1	BGI0578	09/20/23	09/22/23	EPA 6020B	
Magnesium	**12.0**	0.0605	"	"	"	"	"	"	
Sodium	**16.1**	0.0605	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:42**

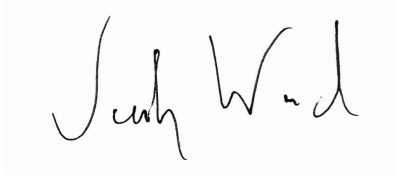
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.530**	0.00100	units	1	BGI0681	09/22/23	09/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific



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S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

FL01 5'

2309269-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82.7**		%	1	BGI0560	09/19/23	09/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

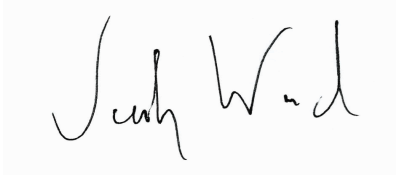
Date Sampled: **09/14/23 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.466**	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 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.97**		pH Units	1	BGI0631	09/21/23	09/21/23	EPA 9045D	



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

BKG01 5'

2309269-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	**0.159**	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.01**	0.200	mg/kg dry	1	BGI0490	09/18/23	09/19/23	EPA 6020B	
Barium	**334**	0.400	"	"	"	"	"	"	
Cadmium	**0.302**	0.200	"	"	"	"	"	"	
Copper	**11.5**	0.400	"	"	"	"	"	"	
Lead	**11.7**	0.200	"	"	"	"	"	"	
Nickel	**2.54**	0.400	"	"	"	"	"	"	
Silver	**0.0421**	0.0200	"	"	"	"	"	"	
Zinc	**11.9**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0614	09/20/23	09/21/23	EPA 7196A	

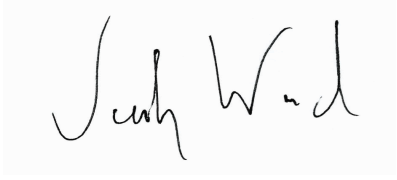
Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**56.8**	0.0578	mg/L dry	1	BGI0578	09/20/23	09/22/23	EPA 6020B	
Magnesium	**20.0**	0.0578	"	"	"	"	"	"	
Sodium	**26.7**	0.0578	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific



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S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

BKG01 5'

2309269-02 (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	**0.776**	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	**86.5**		%	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**

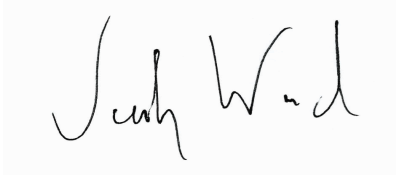
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.736**	0.0100	mmhos/cm	1	BGI0632	09/21/23	09/21/23	EPA 120.1	

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	**8.00**		pH Units	1	BGI0631	09/21/23	09/21/23	EPA 9045D	

Summit Scientific



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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0506 - EPA 5030 Soil MS										
Blank (BGI0506-BLK1)				Prepared & Analyzed: 09/18/23						
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	*0.0362*		*"*	*0.0400*		*90.6*	*50-150*			
Surrogate: Toluene-d8	*0.0406*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0372*		*"*	*0.0400*		*93.0*	*50-150*			
LCS (BGI0506-BS1)				Prepared & Analyzed: 09/18/23						
Benzene	0.119	0.0020	mg/kg	0.100		119	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130			
m,p-Xylene	0.211	0.010	"	0.200		106	70-130			
o-Xylene	0.0998	0.0050	"	0.100		99.8	70-130			
1,2,4-Trimethylbenzene	0.0980	0.0050	"	0.100		98.0	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130			
Naphthalene	0.0816	0.0038	"	0.100		81.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0314*		*"*	*0.0400*		*78.6*	*50-150*			
Surrogate: Toluene-d8	*0.0404*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0382*		*"*	*0.0400*		*95.5*	*50-150*			
Matrix Spike (BGI0506-MS1)		**Source: 2309257-01**		Prepared & Analyzed: 09/18/23						
Benzene	0.113	0.0020	mg/kg	0.100	ND	113	70-130			
Toluene	0.0951	0.0050	"	0.100	ND	95.1	70-130			
Ethylbenzene	0.0953	0.0050	"	0.100	ND	95.3	70-130			
m,p-Xylene	0.184	0.010	"	0.200	ND	91.8	70-130			
o-Xylene	0.0866	0.0050	"	0.100	ND	86.6	70-130			
1,2,4-Trimethylbenzene	0.0837	0.0050	"	0.100	ND	83.7	70-130			
1,3,5-Trimethylbenzene	0.0855	0.0050	"	0.100	ND	85.5	70-130			
Naphthalene	0.0783	0.0038	"	0.100	ND	78.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0398*		*"*	*0.0400*		*99.5*	*50-150*			
Surrogate: Toluene-d8	*0.0402*		*"*	*0.0400*		*100*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0388*		*"*	*0.0400*		*96.9*	*50-150*			

Summit Scientific

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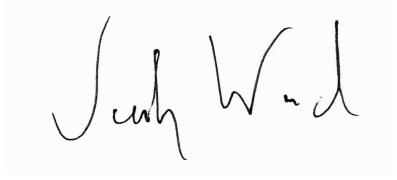
S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0506 - EPA 5030 Soil MS										
Matrix Spike Dup (BGI0506-MSD1)	**Source: 2309257-01**			Prepared & Analyzed: 09/18/23						
Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130	2.75	30	
Toluene	0.0958	0.0050	"	0.100	ND	95.8	70-130	0.723	30	
Ethylbenzene	0.0928	0.0050	"	0.100	ND	92.8	70-130	2.71	30	
m,p-Xylene	0.178	0.010	"	0.200	ND	89.2	70-130	2.95	30	
o-Xylene	0.0863	0.0050	"	0.100	ND	86.3	70-130	0.382	30	
1,2,4-Trimethylbenzene	0.0814	0.0050	"	0.100	ND	81.4	70-130	2.80	30	
1,3,5-Trimethylbenzene	0.0824	0.0050	"	0.100	ND	82.4	70-130	3.72	30	
Naphthalene	0.0758	0.0038	"	0.100	ND	75.8	70-130	3.27	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0379*		"	*0.0400*		*94.7*	*50-150*			
Surrogate: Toluene-d8	*0.0404*		"	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0358*		"	*0.0400*		*89.5*	*50-150*			



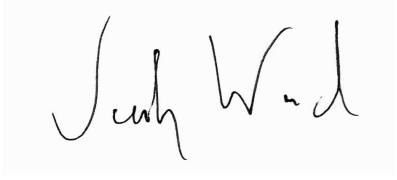
S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0513 - EPA 3550A										
Blank (BGI0513-BLK1)				Prepared & Analyzed: 09/18/23						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*12.6*		*"*	*12.5*		*101*	*30-150*			
LCS (BGI0513-BS1)				Prepared & Analyzed: 09/18/23						
C10-C28 (DRO)	442	50	mg/kg	500		88.4	70-130			
Surrogate: o-Terphenyl	*12.1*		*"*	*12.5*		*97.1*	*30-150*			
Matrix Spike (BGI0513-MS1)	**Source: 2309257-01**			Prepared & Analyzed: 09/18/23						
C10-C28 (DRO)	489	50	mg/kg	500	6.34	96.6	70-130			
Surrogate: o-Terphenyl	*8.53*		*"*	*12.5*		*68.2*	*30-150*			
Matrix Spike Dup (BGI0513-MSD1)	**Source: 2309257-01**			Prepared & Analyzed: 09/18/23						
C10-C28 (DRO)	488	50	mg/kg	500	6.34	96.2	70-130	0.318	20	
Surrogate: o-Terphenyl	*7.94*		*"*	*12.5*		*63.5*	*30-150*			



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0541 - EPA 5030 Soil MS										
Blank (BGI0541-BLK1)				Prepared & Analyzed: 09/19/23						
Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	*0.0366*		*"*	*0.0333*		*110*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0256*		*"*	*0.0333*		*76.8*	*40-150*			
LCS (BGI0541-BS1)				Prepared & Analyzed: 09/19/23						
Acenaphthene	0.0294	0.00500	mg/kg	0.0333		88.2	31-137			
Anthracene	0.0277	0.00500	"	0.0333		83.2	30-120			
Benzo (a) anthracene	0.0282	0.00500	"	0.0333		84.5	30-120			
Benzo (a) pyrene	0.0282	0.00500	"	0.0333		84.7	30-120			
Benzo (b) fluoranthene	0.0306	0.00500	"	0.0333		91.7	30-120			
Benzo (k) fluoranthene	0.0331	0.00500	"	0.0333		99.2	30-120			
Chrysene	0.0312	0.00500	"	0.0333		93.6	30-120			
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333		56.7	30-120			
Fluoranthene	0.0283	0.00500	"	0.0333		84.9	30-120			
Fluorene	0.0288	0.00500	"	0.0333		86.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0262	0.00500	"	0.0333		78.5	30-120			
Pyrene	0.0320	0.00500	"	0.0333		96.0	35-142			
1-Methylnaphthalene	0.0255	0.00500	"	0.0333		76.4	35-142			
2-Methylnaphthalene	0.0322	0.00500	"	0.0333		96.6	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0295*		*"*	*0.0333*		*88.5*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0287*		*"*	*0.0333*		*86.2*	*40-150*			

Summit Scientific

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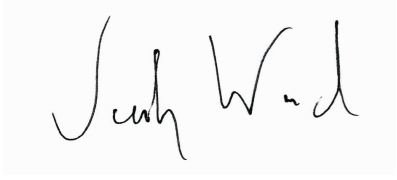
PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0541 - EPA 5030 Soil MS										
Matrix Spike (BGI0541-MS1)	**Source: 2309256-01**			Prepared & Analyzed: 09/19/23						
Acenaphthene	0.0240	0.00500	mg/kg	0.0333	ND	72.1	31-137			
Anthracene	0.0270	0.00500	"	0.0333	ND	81.0	30-120			
Benzo (a) anthracene	0.0289	0.00500	"	0.0333	0.00622	68.2	30-120			
Benzo (a) pyrene	0.0252	0.00500	"	0.0333	ND	75.5	30-120			
Benzo (b) fluoranthene	0.0300	0.00500	"	0.0333	0.00644	70.6	30-120			
Benzo (k) fluoranthene	0.0250	0.00500	"	0.0333	ND	75.0	30-120			
Chrysene	0.0302	0.00500	"	0.0333	0.00597	72.6	30-120			
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	ND	43.4	30-120			
Fluoranthene	0.0510	0.00500	"	0.0333	0.0159	105	30-120			
Fluorene	0.0255	0.00500	"	0.0333	ND	76.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333	ND	51.1	30-120			
Pyrene	0.0441	0.00500	"	0.0333	0.0145	88.9	35-142			
1-Methylnaphthalene	0.0159	0.00500	"	0.0333	ND	47.6	15-130			
2-Methylnaphthalene	0.0181	0.00500	"	0.0333	ND	54.2	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0170*		*"*	*0.0333*		*51.1*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0173*		*"*	*0.0333*		*51.8*	*40-150*			
Matrix Spike Dup (BGI0541-MSD1)	**Source: 2309256-01**			Prepared & Analyzed: 09/19/23						
Acenaphthene	0.0276	0.00500	mg/kg	0.0333	ND	82.8	31-137	13.8	30	
Anthracene	0.0316	0.00500	"	0.0333	ND	94.7	30-120	15.7	30	
Benzo (a) anthracene	0.0345	0.00500	"	0.0333	0.00622	84.9	30-120	17.6	30	
Benzo (a) pyrene	0.0293	0.00500	"	0.0333	ND	88.0	30-120	15.3	30	
Benzo (b) fluoranthene	0.0355	0.00500	"	0.0333	0.00644	87.2	30-120	16.9	30	
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333	ND	84.6	30-120	12.0	30	
Chrysene	0.0367	0.00500	"	0.0333	0.00597	92.3	30-120	19.7	30	
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	19.6	30	
Fluoranthene	0.0652	0.00500	"	0.0333	0.0159	148	30-120	24.5	30	QM-01
Fluorene	0.0297	0.00500	"	0.0333	ND	89.2	30-120	15.1	30	
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	22.9	30	
Pyrene	0.0565	0.00500	"	0.0333	0.0145	126	35-142	24.6	30	
1-Methylnaphthalene	0.0222	0.00500	"	0.0333	ND	66.6	15-130	33.3	50	
2-Methylnaphthalene	0.0270	0.00500	"	0.0333	ND	81.0	15-130	39.6	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0190*		*"*	*0.0333*		*57.0*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0202*		*"*	*0.0333*		*60.5*	*40-150*			

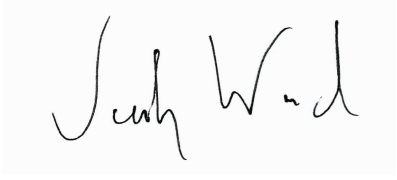


Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

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

Summit Scientific

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

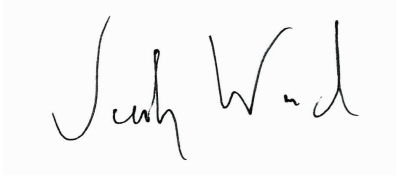


Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0614 - 3060A_Mod										
Blank (BGI0614-BLK1)				Prepared: 09/20/23 Analyzed: 09/21/23						
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BGI0614-BS1)				Prepared: 09/20/23 Analyzed: 09/21/23						
Chromium, Hexavalent	27.0	0.30	mg/kg wet	25.0		108	80-120			
Duplicate (BGI0614-DUP1)		**Source: 2309251-01**		Prepared: 09/20/23 Analyzed: 09/21/23						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BGI0614-MS1)		**Source: 2309251-01**		Prepared: 09/20/23 Analyzed: 09/21/23						
Chromium, Hexavalent	30.7	0.30	mg/kg dry	31.9	ND	96.2	75-125			
Matrix Spike Dup (BGI0614-MSD1)		**Source: 2309251-01**		Prepared: 09/20/23 Analyzed: 09/21/23						
Chromium, Hexavalent	30.5	0.30	mg/kg dry	31.9	ND	95.6	75-125	0.626	20	



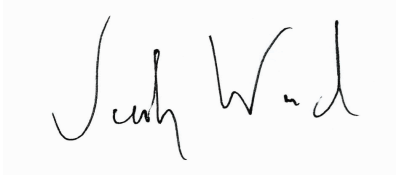
S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

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

Summit Scientific

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



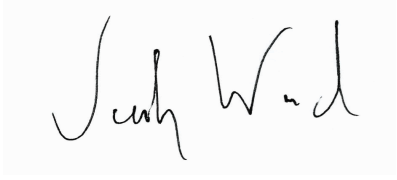
S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0560 - General Preparation										
Duplicate (BGI0560-DUP1)		**Source: 2309266-01**		Prepared & Analyzed: 09/19/23						
% Solids	97.7		%		97.0			0.771	20	

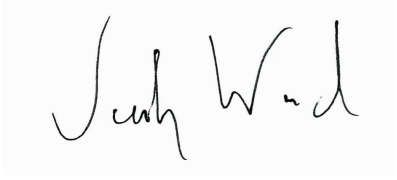


Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Donaldson USX EE 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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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 29-12D Project Number: UWRWE-A2620-ABN Project Manager: Paul Henehan	**Reported:** 09/25/23 16:23

Notes and Definitions

QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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