

FREMONT ENVIRONMENTAL INC.

April 14, 2023

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

Subject: **Flowline Closure Data Submittal**
Lehfeldt C27-15 Flowline
API # 05-123-13851
SWSE Sec. 27, T4N, R64W
Weld County, Colorado
Fremont Project No. C022-207
Remediation #25956

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline abandonment activities at the Noble Energy Inc. (Noble) Lehfeldt C27-15 Flowline. Three soil samples collected along the flowline path (FL06@4', FL07@4', and FL14@4') were reported with concentrations of organic compounds exceeding Table 915 regulatory limits. Additionally, FL06@4' was reported with a pH on 8.47 slightly above the regulatory limit of 8.30. Details of the flowline abandonment activities are documented in the attached Closure Report. Groundwater was not encountered during decommissioning activities.

Please contact me at (970) 213-7488 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.

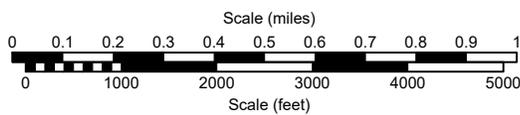
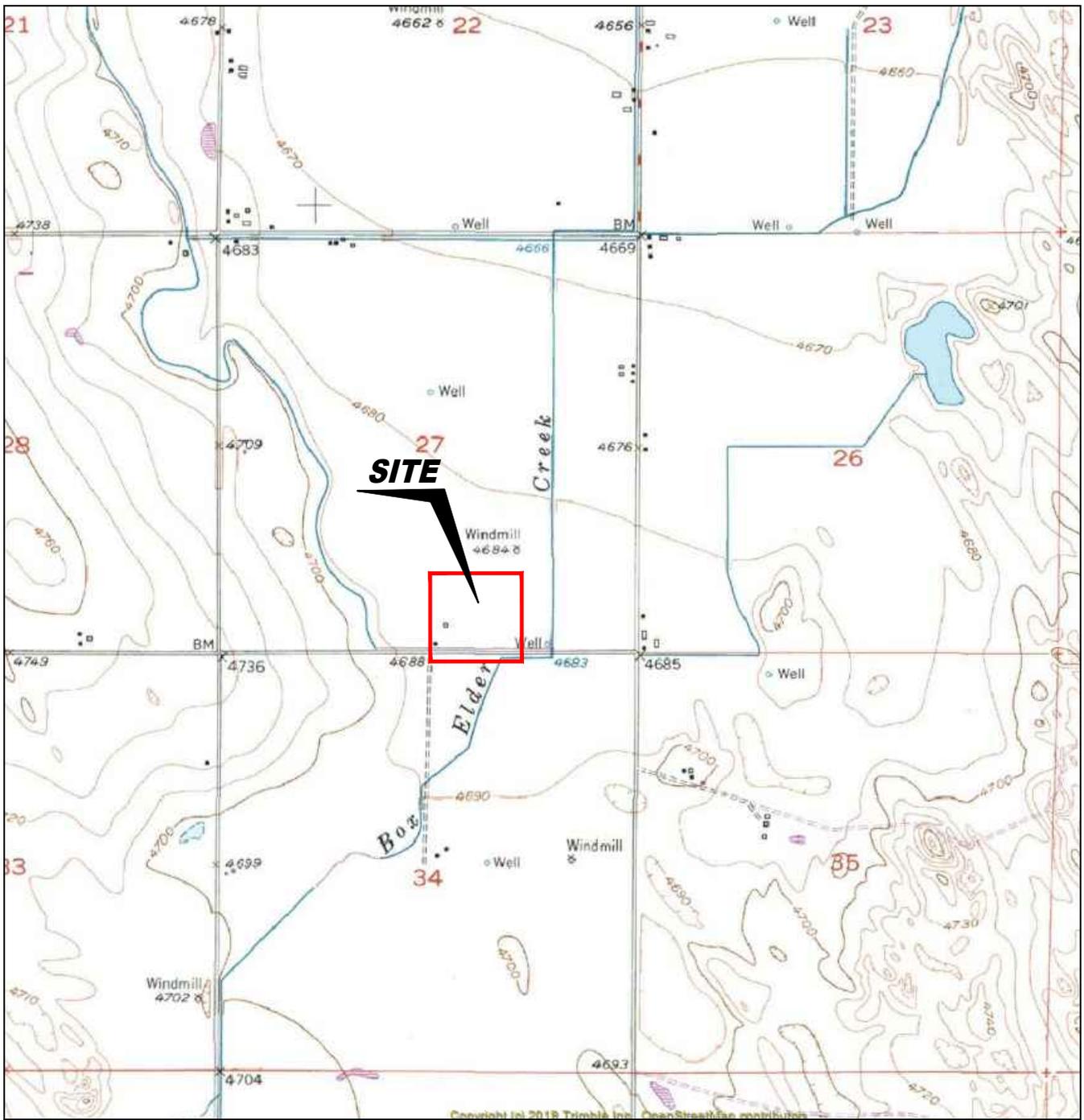


Chris Lattes
Consultant

Attachments:

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

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



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Lehfeldt C 27-15
 SWSE Sec. 27 T4N, R64W, 6th PM
 Weld County, Colorado
 40.277960°, -104.534730°

Project # C022-207	API # 05-123-13851	Facility #
Date 4/4/23	Remediation # 25956	Filename 22207T3





LEGEND

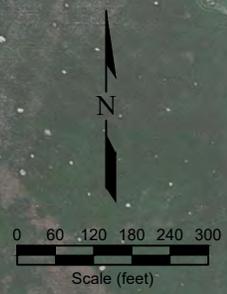
- WELL HEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- ▭ BUILDING
- ▭ BUILDING
- ▭ CONTAINMENT WALL
- ▭ CONTAINMENT BERM
- ▭ FLOW LINE
- ▭ FENCE LINE
- SW PID READING LOCATION IDENTIFICATION PHOTO IONIZATION DETECTION (ppm)

**Figure 2
SITE MAP**

Noble Energy, Inc. ~ Lehfeldt C 27-15
 SWSE Sec. 27 T4N, R64W, 6th PM
 Weld County, Colorado
 40.277960°, -104.534730°

Project No. C022-207	API # 05-123-13851	Facility #
Date 4/4/23	Remediation # 25956	Filename 22207Q3





LEGEND

- WELL HEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- ▭ BUILDING
- ▭ BUILDING
- ▭ CONTAINMENT WALL
- ▭ CONTAINMENT BERM
- ▭ FLOW LINE
- ▭ FENCE LINE
- NOT ANALYZED

12/28/2022	DATE SAMPLED	12/28/2022	DATE SAMPLED
SBA (1.5')	SAMPLE ID and DEPTH (ft)	SBA (1.5')	SAMPLE ID and DEPTH (ft)
ACE	<-0.0000	B	0.042
Ant	<-0.0000	T	0.14
BaA	<-0.0000	E	0.039
BbF	0.00763	X	0.29
BbP	<-0.0000	124TMB	0.11
Chr	<-0.0000	135TMB	0.034
DBahAnt	<-0.0000	N	0.019
FLU	<-0.0000	G	3.0
FL	0.054	D	<-0.50
H123cdPY	<-0.0000	O	<-0.50
1MN	0.175		
2MN	0.262		
PY	0.00724		

12/28/2022	DATE SAMPLED	12/28/2022	DATE SAMPLED
SBA (1.5')	SAMPLE ID and DEPTH (ft)	SBA (1.5')	SAMPLE ID and DEPTH (ft)
BENZENE (mg/kg)	0.042	ARSENIC (mg/kg)	4.42
TOLUENE (mg/kg)	0.14	BARIUM (mg/kg)	867
ETHYLBENZENE (mg/kg)	0.039	CADMIUM (mg/kg)	0.172
TOTAL XYLENES (mg/kg)	0.29	COPPER (mg/kg)	6.52
1,2,4-TRIMETHYLBENZENE (mg/kg)	0.11	LEAD (mg/kg)	7.44
1,3,5-TRIMETHYLBENZENE (mg/kg)	0.034	NICKEL (mg/kg)	0.014
NAPHTHALENE (mg/kg)	0.019	SELENIUM (mg/kg)	0.004
TPH-GRO (mg/kg)	3.0	SILVER (mg/kg)	0.004
TPH-ORO (mg/kg)	<-0.50	HEXAVALENT CHROMIUM (mg/kg)	<-0.30
TPH-CRO (mg/kg)	<-0.50	ZINC (mg/kg)	28.3

12/28/2022	DATE SAMPLED
SBA (1.5')	SAMPLE ID and DEPTH (ft)
SAR	7.92
PH	7.68
EC	1.63
EC (mmhos/cm)	<-0.0000
BORON (mg/L)	<-0.0000

Figure 3
SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ Lehfeltd C 27-15
SWSE Sec. 27 T4N, R64W, 6th PM
Weld County, Colorado
40.277960°, -104.534730°

Project No. C022-207	API # 05-123-13851	Facility #
Date 6/1/23	Remediation # 25956	Filename 22207Q3



TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
LEHFELDT C 27-15, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-207

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
FL06@4'	12/16/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL07@4'	12/16/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.11	<0.50	<50	<50
FL14@4'	12/16/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP02@3'	12/15/2022	3'	<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)

* Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
LEHFELDT C 27-15, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-207

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL06@4'	12/16/2022	4'	0.0142	0.0277	0.0543	0.0367	0.0558	0.0226	0.0581	0.00644	0.139	0.016	0.0237	0.108	<0.00500	<0.00500
FL07@4'	12/16/2022	4'	0.298	0.4	0.398	0.31	0.435	0.177	0.418	0.0476	1.27	0.311	0.193	0.88	0.0677	0.16
FL14@4'	12/16/2022	4'	0.007	0.0067	0.0119	0.0152	0.0242	0.00976	0.0267	<0.00500	0.0655	0.00713	0.00954	0.0512	<0.00500	<0.00500
SEP02@3'	12/15/2022	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY, INC.
LEHFELDT C 27-15, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-207

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL06@4'	12/16/2022	4'	8.47	0.542	2.64	0.58
FL07@4'	12/16/2022	4'	7.84	0.567	1.76	1.68
FL14@4'	12/16/2022	4'	8.00	0.872	3.02	1.19
SEP02@3'	12/15/2022	3'	8.13	0.217	0.365	1.98

Bold faced values exceed the COGCC Table 915-1 concentrations

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

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> Lehfeldt C27-15		<i>Date:</i> 12/15-16/2022		<i>Remediation Project #:</i> 25956/26094				
<i>Associated Wells:</i> 05-123-13851		<i>Age of Site:</i> Unknown		<i>Number of Photos Attached:</i> See attached				
<i>Starting point: (GPS coordinates and descriptions)</i> 40.278050°, -104.534590°								
<i>End point: (GPS coordinates and descriptions)</i> 40.279776°, -104.528054°								
<i>USCS Soil Type:</i> SP and ML				<i>Estimated Depth to Groundwater:</i>				
<i>Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i> No observed hydrocarbon impacted soil.								
<i>Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i> No observed salt crusted soils or impacted vegetation.								
Flowlines								
<i>Flowline type</i>	<i>Wellhead line</i>							
<i>Depth</i>	4-5' bgs							
<i>Age</i>	Unknown							
<i>Length</i>	~2470'							
<i>Construction Material</i>	Steel							
<i>Were flowlines pulled?</i>	Yes							
<i>Visual Integrity of lines</i>	No observed issues							
<i>Visual impacts if trenched</i>	None observed							
<i>PID Readings if trenched</i>	0-0.6 ppm							
<i>Sample taken? Location/Sample ID#</i>	See attached							
<i>Photo Number(s)</i>	See attached.							
<i>Other observations regarding on location flowlines:</i> 256 feet of the flowline under Boxelder Creek was AIP								
Summary								
<i>Was impacted soil identified?</i> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards								
<i>Total number of samples field screened:</i> 15				<i>Total number of samples collected:</i> 15				
<i>Highest PID Reading:</i> 0.7 ppm				<i>Total number of samples submitted to lab for analysis:</i> 4				
<i>If more than 10 cubic yards of impacted soil were observed:</i> Reported impacts have not been excavated.								
<i>Vertical extent:</i>				<i>Estimated spill volume:</i>				
<i>Lateral extent:</i>				<i>Volume of soil removed:</i>				
<i>Is additional investigation required?</i>								
<i>Was groundwater encountered during the investigation?</i> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils								
<i>Measured depth to groundwater:</i>				<i>Was remedial groundwater removal conducted?</i> Yes <input type="checkbox"/> No <input type="checkbox"/>				
<i>Date Groundwater was encountered:</i>				<i>Commencement date of removal:</i>				
<i>Sheen on groundwater?</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No		<i>Volume of groundwater removed prior to sampling:</i>				
<i>Free product observed?</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No		<i>Volume of groundwater removed post sampling:</i>				
<i>Total number of samples collected:</i>				<i>Total Volume of groundwater removed:</i>				
<i>Total number of samples submitted to lab for analysis:</i>								

Photo Log



Description:

Lehfeldt C27-15 Wellhead

Photo Log



Description:

SEP02@3'

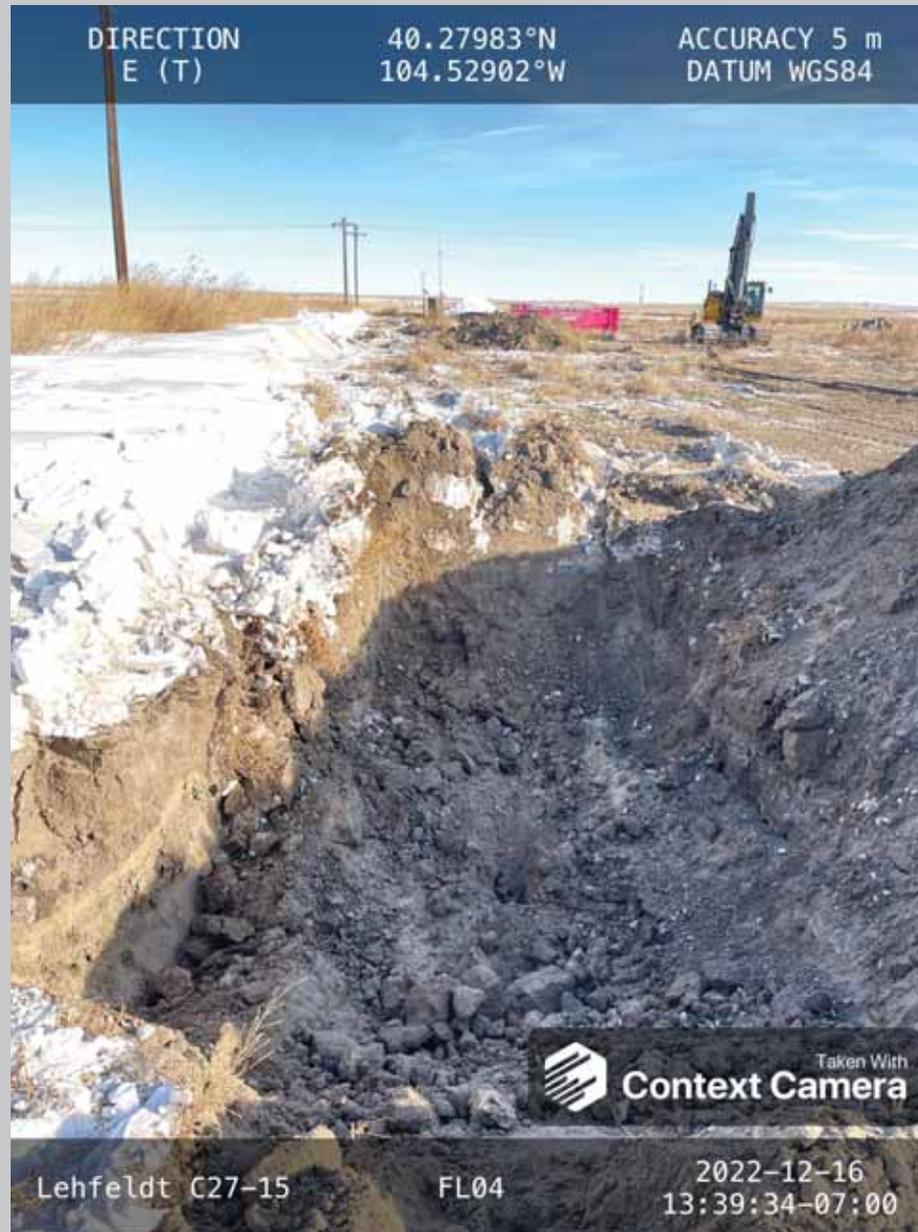
Photo Log



Description:

FL03@4'

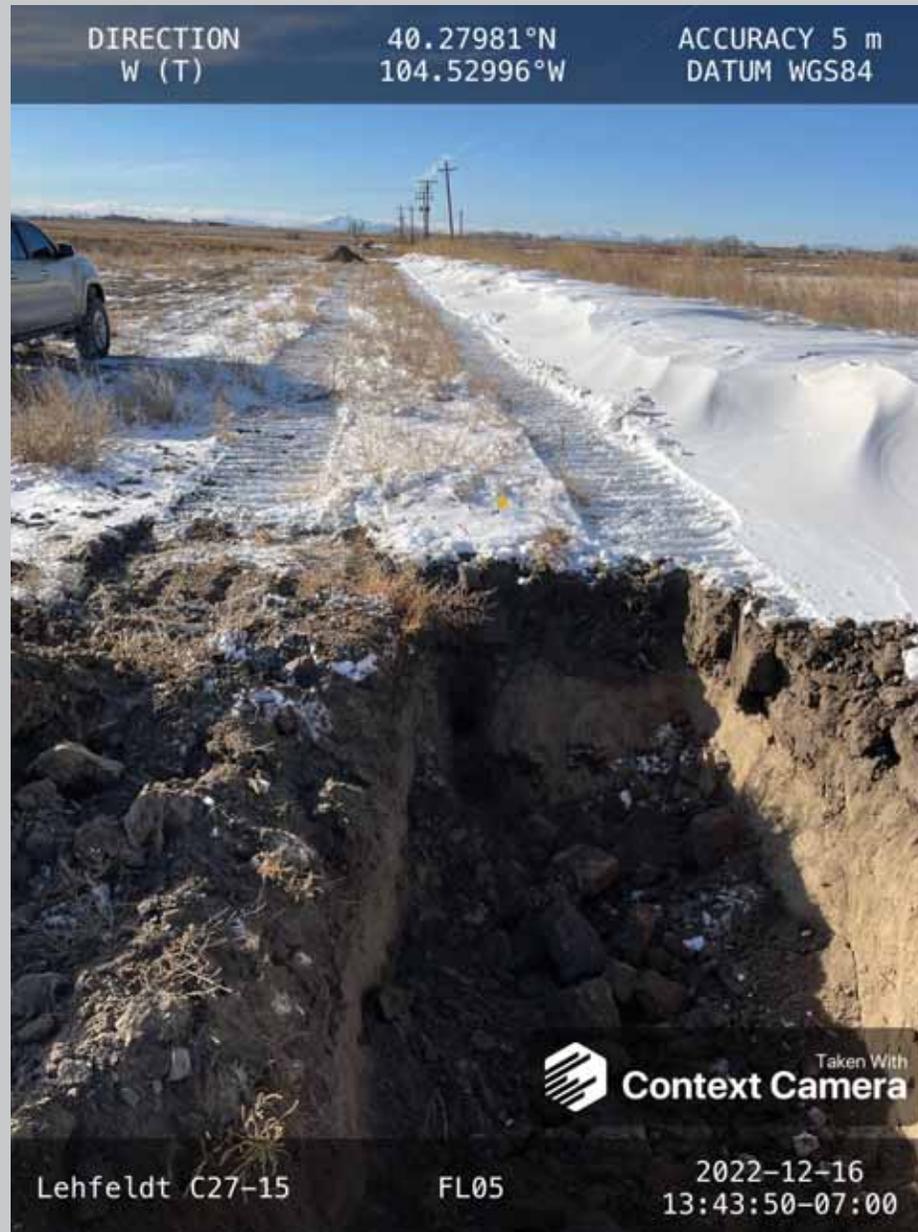
Photo Log



Description:

FL04@4'

Photo Log



Description:

FL05@4'

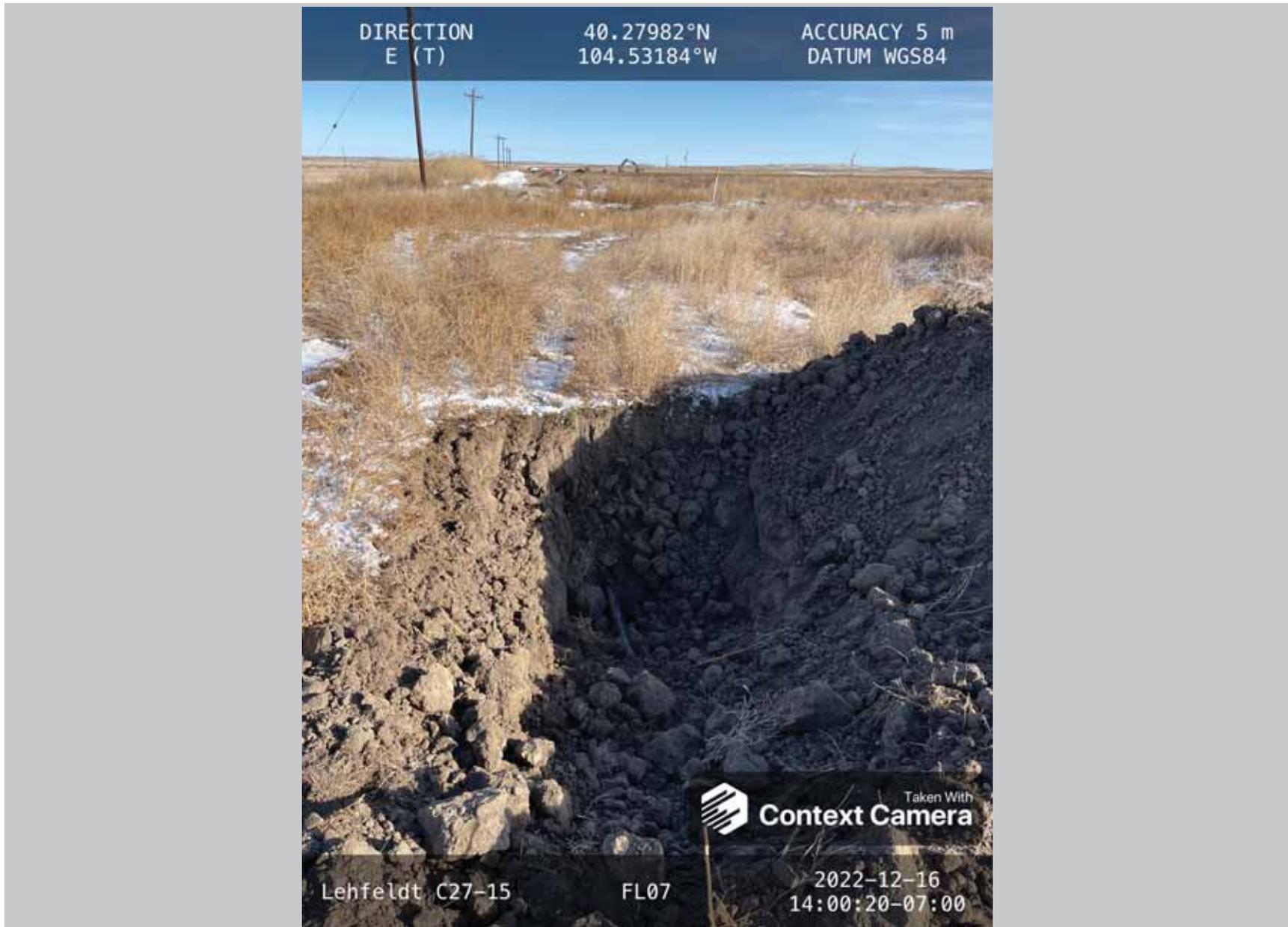
Photo Log



Description:

FL06@5'

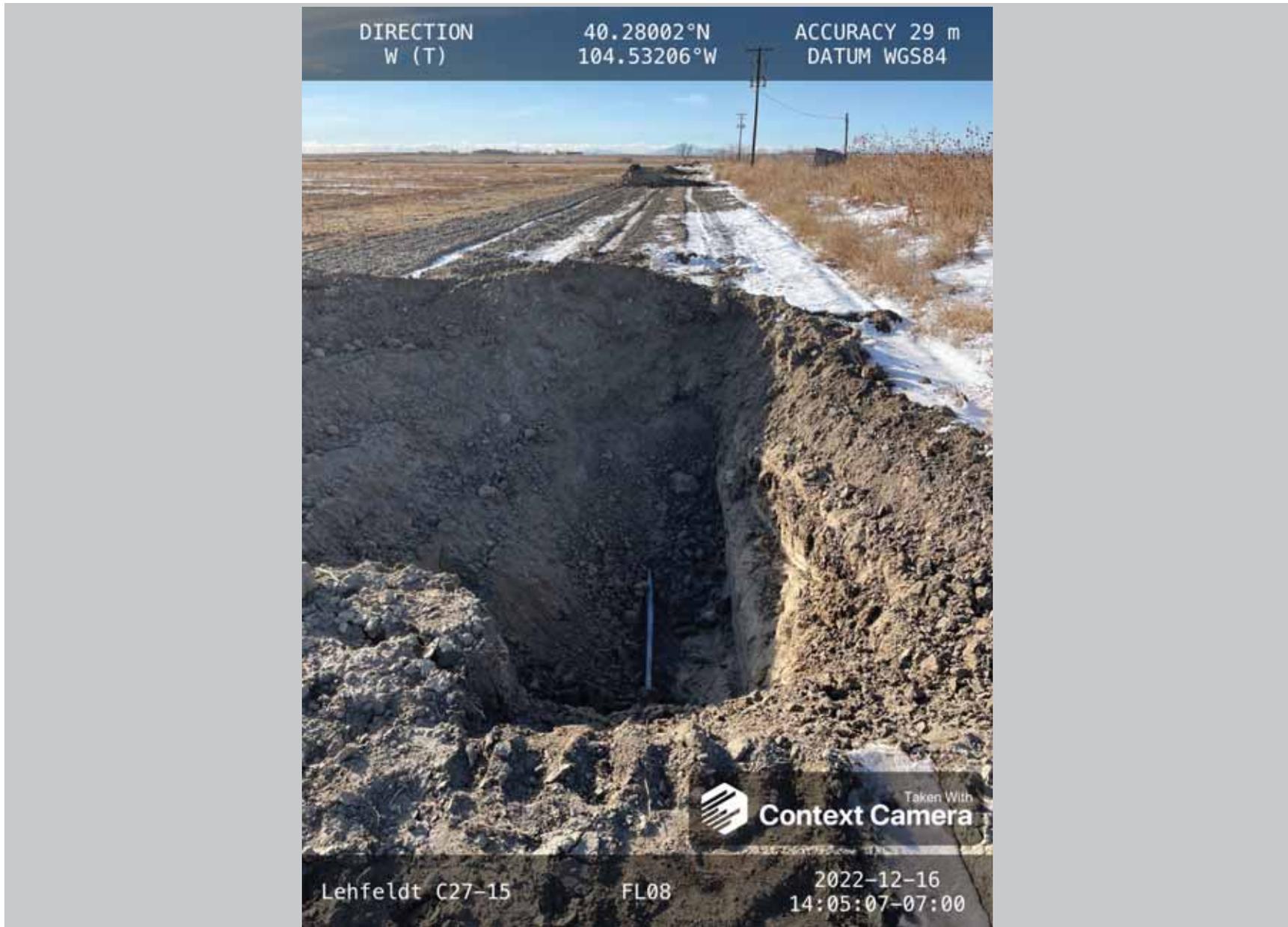
Photo Log



Description:

FL07@4'

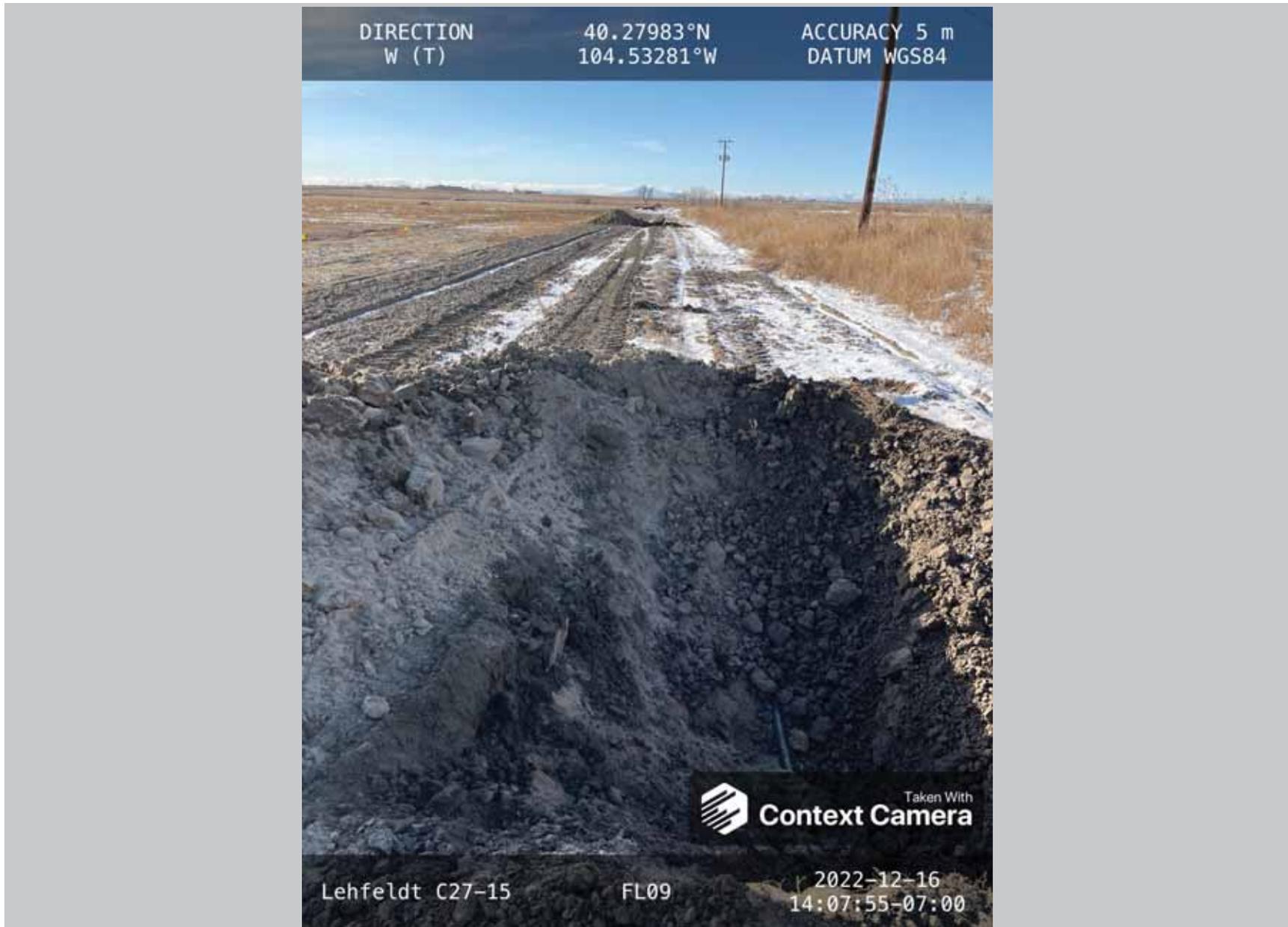
Photo Log



Description:

FL08@5'

Photo Log



Description:

FL09@4'

Photo Log



Description:

FL10@4'

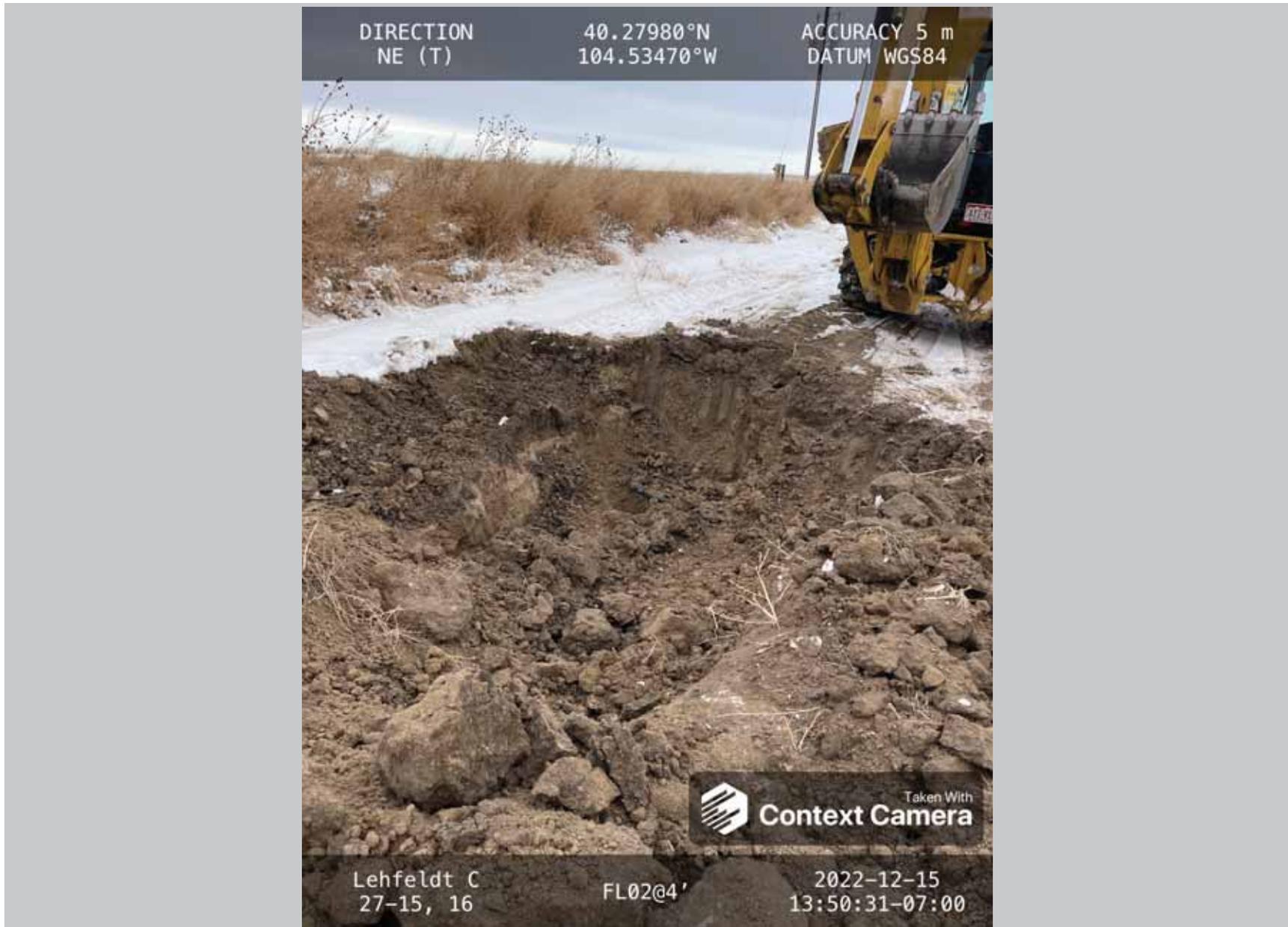
Photo Log



Description:

FL01@4'

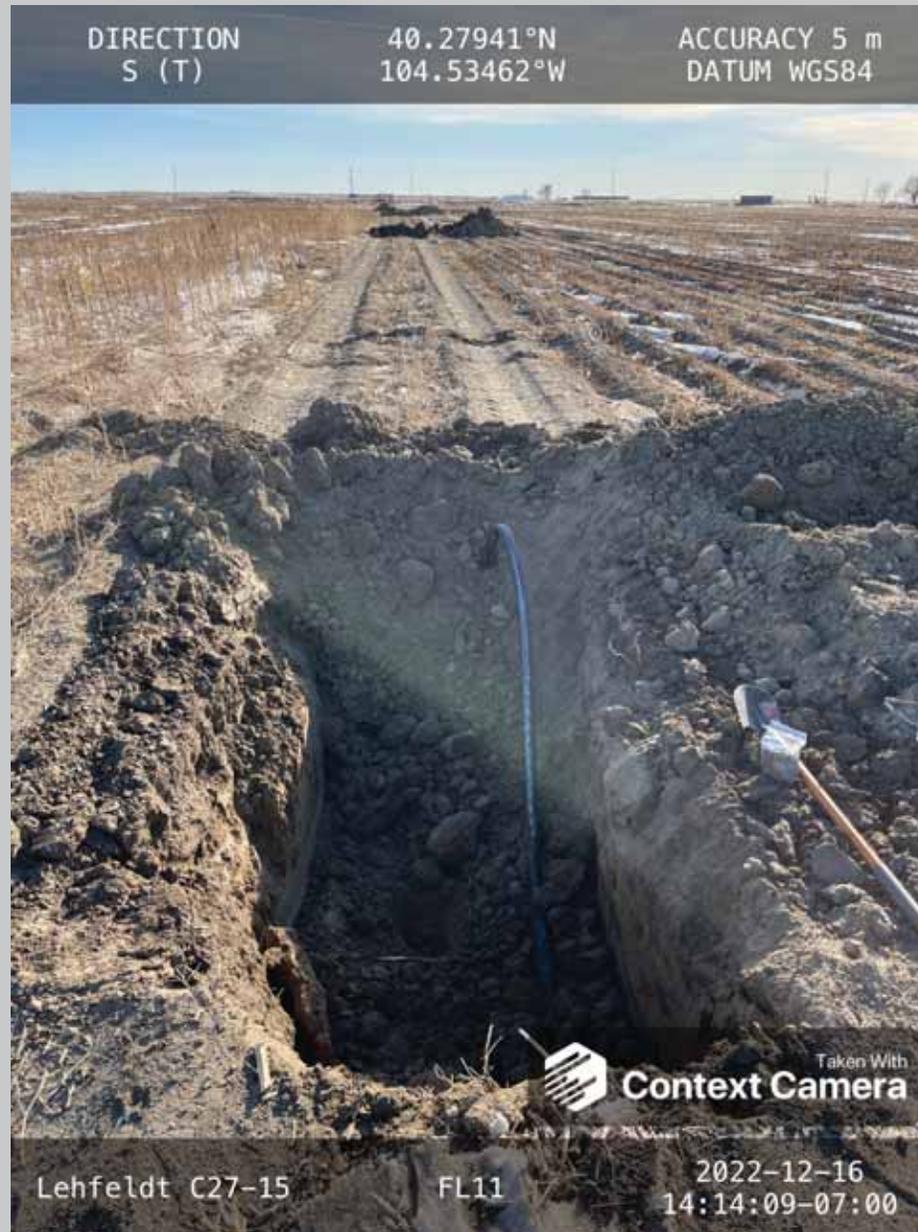
Photo Log



Description:

FL02@4'

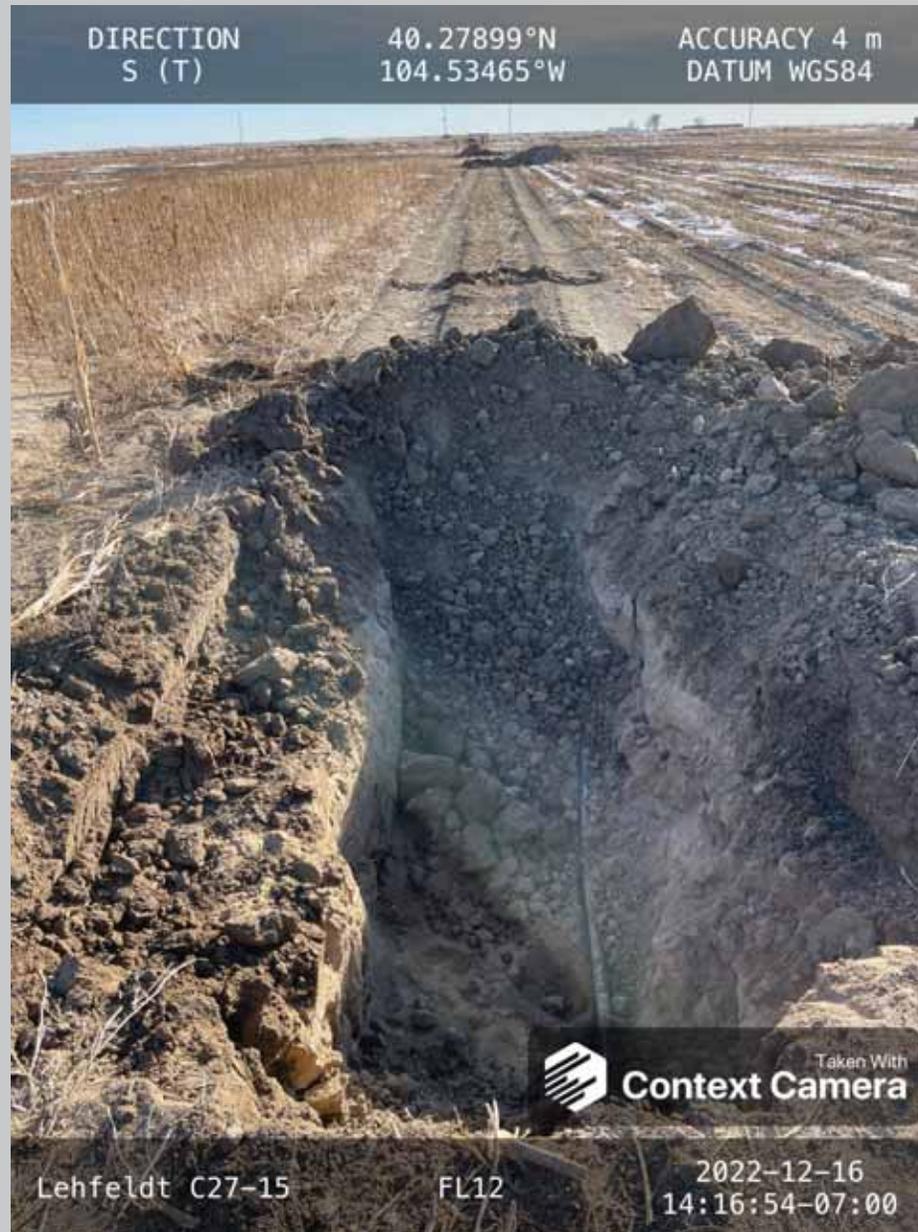
Photo Log



Description:

FL11@4'

Photo Log



Description:

FL12@4'

Photo Log



Description:

FL13@4'

Photo Log



Description:

FL14@4'

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 03, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Lehfeldt C27-15

Work Order #2212408

Enclosed are the results of analyses for samples received by Summit Scientific on 12/20/22 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltdt C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL14@4'	2212408-01	Soil	12/16/22 00:00	12/20/22 16:30
FL07@4'	2212408-02	Soil	12/16/22 00:00	12/20/22 16:30
FL06@4'	2212408-03	Soil	12/16/22 00:00	12/20/22 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.

2212408

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
 303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental Project Manager: Paul Henehan
 Address: E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com
 City/State/Zip: Bill to Noble:
 Phone: Project Name: Lehfeldt CR7-15
 Sampler Name: Chris Latta Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TPH, BTEX, TMBS, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD
1	FL14 @ 4'	12/16/22		2			X		X			X	X	X					
2	FL07 @ 4'			2			X		X			X	X	X					
3	FL06 @ 4'	12/16/22		2			X		X			X	X	X					
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>Chris Latta</u>	Date/Time: <u>12/20/22 2:20</u>	Received by: <u>SL</u>	Date/Time: <u>12/20/22 8:20</u>	Turn Around Time (Check)	Notes: <u>Flowline</u>
				Same Day <input type="checkbox"/>	
				24 hours <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	72 hours <input type="checkbox"/>
				Standard <input checked="" type="checkbox"/>	
Relinquished by: <u>SZ</u>	Date/Time: <u>12/20/22 16:20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/20/22 16:30</u>	Sample Integrity:	
				Temperature Upon Receipt: <u>8.9</u>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

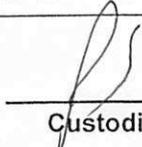
S₂

Sample Receipt Checklist

S2 Work Order# 2212408Client: Fremont Client Project ID: Lehfeldt C 27-15,16Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____ Matrix (Check all that apply) Air Soil/Solid Water Other Temp (°C) Thermometer #

	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"/>	on ICE
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 type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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.
Custodian Printed Name12-20-22 1630
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

FL14@4'
2212408-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0550	12/21/22	12/23/22	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: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0328	82.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0554	12/21/22	12/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	16.7	133 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

FL14@4'
2212408-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00700	0.00500	mg/kg	1	BFL0584	12/22/22	12/22/22	EPA 8270D SIM	
Anthracene	0.00672	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0232	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0137	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0211	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00891	0.00500	"	"	"	"	"	"	
Chrysene	0.0243	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0649	0.00500	"	"	"	"	"	"	
Fluorene	0.00682	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.00842	0.00500	"	"	"	"	"	"	
Pyrene	0.0403	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0216	64.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.19	0.0100	mg/L	1	BFL0648	12/27/22	12/28/22	EPA 6020B	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.8	0.0556	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

FL14@4'
2212408-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	11.9	0.0556	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	
Sodium	83.2	0.0556	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.02	0.00100	units	1	BFL0765	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BFL0662	12/27/22	12/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.872	0.0100	mmhos/cm	1	BFL0730	12/29/22	12/29/22	EPA 120.1	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BFL0729	12/29/22	12/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

FL07@4'
2212408-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0550	12/21/22	12/23/22	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	0.12	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0355	88.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0554	12/21/22	12/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.7	126 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

FL07@4'
2212408-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.629	0.250	mg/kg	50	BFL0584	12/22/22	12/27/22	EPA 8270D SIM	
Anthracene	0.861	0.250	"	"	"	"	"	"	
Benzo (a) anthracene	1.06	0.250	"	"	"	"	"	"	
Benzo (a) pyrene	0.692	0.250	"	"	"	"	"	"	
Benzo (b) fluoranthene	1.03	0.250	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.400	0.250	"	"	"	"	"	"	
Chrysene	1.16	0.250	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.129	0.00500	"	1	"	"	12/22/22	"	
Fluoranthene	3.08	0.250	"	50	"	"	12/27/22	"	
Fluorene	0.703	0.250	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.460	0.250	"	"	"	"	"	"	
Pyrene	2.28	0.250	"	"	"	"	"	"	
1-Methylnaphthalene	0.100	0.00500	"	1	"	"	12/22/22	"	
2-Methylnaphthalene	0.174	0.00500	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0214	64.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0335	100 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.68	0.0100	mg/L	1	BFL0648	12/27/22	12/28/22	EPA 6020B	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.7	0.0549	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

FL07@4'
2212408-02 (Soil)

Summit Scientific

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	11.2	0.0549	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	
Sodium	46.6	0.0549	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.76	0.00100	units	1	BFL0765	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BFL0662	12/27/22	12/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.567	0.0100	mmhos/cm	1	BFL0730	12/29/22	12/29/22	EPA 120.1	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BFL0729	12/29/22	12/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

FL06@4'
2212408-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0550	12/21/22	12/23/22	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: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0364	91.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0554	12/21/22	12/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.7	117 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltdt C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

FL06@4'
2212408-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0584	12/22/22	12/22/22	EPA 8270D SIM	
Anthracene	0.00536	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0119	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00817	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0133	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00513	0.00500	"	"	"	"	"	"	
Chrysene	0.0123	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0310	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.00535	0.00500	"	"	"	"	"	"	
Pyrene	0.0201	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0214	64.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.580	0.0100	mg/L	1	BFL0648	12/27/22	12/28/22	EPA 6020B	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 10:06

FL06@4'
2212408-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.5	0.0537	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	
Magnesium	6.41	0.0537	"	"	"	"	"	"	
Sodium	56.8	0.0537	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.64	0.00100	units	1	BFL0765	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BFL0662	12/27/22	12/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.542	0.0100	mmhos/cm	1	BFL0730	12/29/22	12/29/22	EPA 120.1	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BFL0729	12/29/22	12/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehigh C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

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 BFL0550 - EPA 5030 Soil MS

Blank (BFL0550-BLK1)

Prepared: 12/21/22 Analyzed: 12/22/22

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	0.0297		"	0.0400		74.2	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0365		"	0.0400		91.2	50-150			

LCS (BFL0550-BS1)

Prepared: 12/21/22 Analyzed: 12/22/22

Benzene	0.0553	0.0020	mg/kg	0.0750		73.7	70-130			
Toluene	0.0605	0.0050	"	0.0750		80.6	70-130			
Ethylbenzene	0.0694	0.0050	"	0.0750		92.6	70-130			
m,p-Xylene	0.139	0.010	"	0.150		92.8	70-130			
o-Xylene	0.0628	0.0050	"	0.0750		83.7	70-130			
1,2,4-Trimethylbenzene	0.0646	0.0050	"	0.0750		86.1	70-130			
1,3,5-Trimethylbenzene	0.0692	0.0050	"	0.0750		92.3	70-130			
Naphthalene	0.0640	0.0038	"	0.0750		85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0260		"	0.0400		65.0	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0361		"	0.0400		90.2	50-150			

Matrix Spike (BFL0550-MS1)

Source: 2212394-01

Prepared: 12/21/22 Analyzed: 12/22/22

Benzene	0.0529	0.0020	mg/kg	0.0750	ND	70.5	70-130			
Toluene	0.0573	0.0050	"	0.0750	ND	76.4	70-130			
Ethylbenzene	0.0688	0.0050	"	0.0750	ND	91.8	70-130			
m,p-Xylene	0.138	0.010	"	0.150	ND	92.2	70-130			
o-Xylene	0.0619	0.0050	"	0.0750	ND	82.5	70-130			
1,2,4-Trimethylbenzene	0.0635	0.0050	"	0.0750	ND	84.7	70-130			
1,3,5-Trimethylbenzene	0.0688	0.0050	"	0.0750	ND	91.7	70-130			
Naphthalene	0.0674	0.0038	"	0.0750	0.00312	85.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0250		"	0.0400		62.6	50-150			
Surrogate: Toluene-d8	0.0384		"	0.0400		95.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0363		"	0.0400		90.8	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 10:06

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		

Batch BFL0550 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0550-MSD1)	Source: 2212394-01			Prepared: 12/21/22 Analyzed: 12/22/22						
Benzene	0.0525	0.0020	mg/kg	0.0750	ND	70.0	70-130	0.626	30	
Toluene	0.0586	0.0050	"	0.0750	ND	78.2	70-130	2.38	30	
Ethylbenzene	0.0598	0.0050	"	0.0750	ND	79.8	70-130	13.9	30	
m,p-Xylene	0.123	0.010	"	0.150	ND	81.8	70-130	11.9	30	
o-Xylene	0.0568	0.0050	"	0.0750	ND	75.7	70-130	8.55	30	
1,2,4-Trimethylbenzene	0.0609	0.0050	"	0.0750	ND	81.2	70-130	4.15	30	
1,3,5-Trimethylbenzene	0.0635	0.0050	"	0.0750	ND	84.7	70-130	7.98	30	
Naphthalene	0.0726	0.0038	"	0.0750	0.00312	92.6	70-130	7.41	30	
Surrogate: 1,2-Dichloroethane-d4	0.0311		"	0.0400		77.8	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0400		92.2	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeldt C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 10:06

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 BFL0554 - EPA 3550A

Blank (BFL0554-BLK1)

Prepared & Analyzed: 12/21/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5		108		30-150			

LCS (BFL0554-BS1)

Prepared & Analyzed: 12/21/22

C10-C28 (DRO)	502	50	mg/kg	500		100		70-130			
Surrogate: <i>o</i> -Terphenyl	16.5		"	12.5		132		30-150			

Matrix Spike (BFL0554-MS1)

Source: 2212394-01

Prepared & Analyzed: 12/21/22

C10-C28 (DRO)	411	50	mg/kg	500	26.8	76.9		70-130			
Surrogate: <i>o</i> -Terphenyl	15.0		"	12.5		120		30-150			

Matrix Spike Dup (BFL0554-MSD1)

Source: 2212394-01

Prepared & Analyzed: 12/21/22

C10-C28 (DRO)	402	50	mg/kg	500	26.8	75.1		70-130	2.27	20	
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117		30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeldt C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

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 BFL0584 - EPA 5030 Soil MS

Blank (BFL0584-BLK1)

Prepared & Analyzed: 12/22/22

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	0.0289		"	0.0333		86.6	40-150			
Surrogate: Fluoranthene-d10	0.0264		"	0.0333		79.2	40-150			

LCS (BFL0584-BS1)

Prepared & Analyzed: 12/22/22

Acenaphthene	0.0272	0.00500	mg/kg	0.0333		81.6	31-137			
Anthracene	0.0281	0.00500	"	0.0333		84.4	30-120			
Benzo (a) anthracene	0.0272	0.00500	"	0.0333		81.7	30-120			
Benzo (a) pyrene	0.0278	0.00500	"	0.0333		83.5	30-120			
Benzo (b) fluoranthene	0.0272	0.00500	"	0.0333		81.6	30-120			
Benzo (k) fluoranthene	0.0278	0.00500	"	0.0333		83.4	30-120			
Chrysene	0.0290	0.00500	"	0.0333		86.9	30-120			
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333		74.0	30-120			
Fluoranthene	0.0288	0.00500	"	0.0333		86.3	30-120			
Fluorene	0.0268	0.00500	"	0.0333		80.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0278	0.00500	"	0.0333		83.4	30-120			
Pyrene	0.0246	0.00500	"	0.0333		73.9	35-142			
1-Methylnaphthalene	0.0286	0.00500	"	0.0333		85.9	35-142			
2-Methylnaphthalene	0.0251	0.00500	"	0.0333		75.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0258		"	0.0333		77.5	40-150			
Surrogate: Fluoranthene-d10	0.0293		"	0.0333		87.9	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltdt C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

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 BFL0584 - EPA 5030 Soil MS

Matrix Spike (BFL0584-MS1)	Source: 2212421-01			Prepared & Analyzed: 12/22/22								
Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.3	31-137					
Anthracene	0.0213	0.00500	"	0.0333	ND	63.9	30-120					
Benzo (a) anthracene	0.0251	0.00500	"	0.0333	ND	75.3	30-120					
Benzo (a) pyrene	0.0222	0.00500	"	0.0333	ND	66.5	30-120					
Benzo (b) fluoranthene	0.0241	0.00500	"	0.0333	ND	72.2	30-120					
Benzo (k) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.0	30-120					
Chrysene	0.0257	0.00500	"	0.0333	ND	77.2	30-120					
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.6	30-120					
Fluoranthene	0.0383	0.00500	"	0.0333	ND	115	30-120					
Fluorene	0.0182	0.00500	"	0.0333	ND	54.6	30-120					
Indeno (1,2,3-cd) pyrene	0.0201	0.00500	"	0.0333	ND	60.4	30-120					
Pyrene	0.0305	0.00500	"	0.0333	ND	91.4	35-142					
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.4	15-130					
2-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.4	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0172</i>		<i>"</i>	<i>0.0333</i>		<i>51.7</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0204</i>		<i>"</i>	<i>0.0333</i>		<i>61.1</i>	<i>40-150</i>					

Matrix Spike Dup (BFL0584-MSD1)	Source: 2212421-01			Prepared & Analyzed: 12/22/22								
Acenaphthene	0.0223	0.00500	mg/kg	0.0333	ND	66.9	31-137	19.0	30			
Anthracene	0.0258	0.00500	"	0.0333	ND	77.3	30-120	18.9	30			
Benzo (a) anthracene	0.0332	0.00500	"	0.0333	ND	99.7	30-120	27.9	30			
Benzo (a) pyrene	0.0290	0.00500	"	0.0333	ND	87.0	30-120	26.8	30			
Benzo (b) fluoranthene	0.0325	0.00500	"	0.0333	ND	97.4	30-120	29.8	30			
Benzo (k) fluoranthene	0.0260	0.00500	"	0.0333	ND	77.9	30-120	22.8	30			
Chrysene	0.0344	0.00500	"	0.0333	ND	103	30-120	28.8	30			
Dibenz (a,h) anthracene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	13.6	30			
Fluoranthene	0.0260	0.00500	"	0.0333	ND	78.1	30-120	38.2	30			QR-02
Fluorene	0.0218	0.00500	"	0.0333	ND	65.3	30-120	17.8	30			
Indeno (1,2,3-cd) pyrene	0.0254	0.00500	"	0.0333	ND	76.3	30-120	23.2	30			
Pyrene	0.0387	0.00500	"	0.0333	ND	116	35-142	23.9	30			
1-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.6	15-130	23.2	50			
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.5	15-130	16.6	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0198</i>		<i>"</i>	<i>0.0333</i>		<i>59.5</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0246</i>		<i>"</i>	<i>0.0333</i>		<i>73.8</i>	<i>40-150</i>					

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 10:06

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 BFL0648 - EPA 3050B

Blank (BFL0648-BLK1)

Prepared: 12/27/22 Analyzed: 12/28/22

Boron ND 0.0100 mg/L

LCS (BFL0648-BS1)

Prepared: 12/27/22 Analyzed: 12/28/22

Boron 4.77 0.0100 mg/L 5.00 95.3 80-120

Duplicate (BFL0648-DUP1)

Source: 2212127-02

Prepared: 12/27/22 Analyzed: 12/28/22

Boron 0.500 0.0100 mg/L 0.485 3.09 20

Matrix Spike (BFL0648-MS1)

Source: 2212127-02

Prepared: 12/27/22 Analyzed: 12/28/22

Boron 4.58 0.0100 mg/L 5.00 0.485 82.0 75-125

Matrix Spike Dup (BFL0648-MSD1)

Source: 2212127-02

Prepared: 12/27/22 Analyzed: 12/28/22

Boron 4.92 0.0100 mg/L 5.00 0.485 88.7 75-125 7.10 25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 10:06

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 BFL0686 - General Preparation

Blank (BFL0686-BLK1)

Prepared: 12/28/22 Analyzed: 12/30/22

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

LCS (BFL0686-BS1)

Prepared: 12/28/22 Analyzed: 12/30/22

Calcium	5.81	0.0500	mg/L wet	5.00		116	70-130			
Magnesium	5.76	0.0500	"	5.00		115	70-130			
Sodium	5.65	0.0500	"	5.00		113	70-130			

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltdt C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 10:06

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

Summit Scientific

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

Batch BFL0662 - General Preparation

Duplicate (BFL0662-DUP1)

Source: 2212404-01

Prepared: 12/27/22 Analyzed: 12/28/22

% Solids	91.3		%		91.9			0.584	20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 10:06

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

Summit Scientific

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

Batch BFL0730 - General Preparation

Blank (BFL0730-BLK1)

Prepared & Analyzed: 12/29/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0730-BS1)

Prepared & Analyzed: 12/29/22

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 97.8 95-105

Duplicate (BFL0730-DUP1)

Source: 2212408-01

Prepared & Analyzed: 12/29/22

Specific Conductance (EC) 0.863 0.0100 mmhos/cm 0.872 1.04 20

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 10:06

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 BFL0729 - General Preparation

LCS (BFL0729-BS1)

Prepared & Analyzed: 12/29/22

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BFL0729-DUP1)

Source: 2212408-01

Prepared & Analyzed: 12/29/22

pH	8.01	pH Units	8.00	0.125	20
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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 - Lehfeltdt C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 10:06

Notes and Definitions

- 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.
- 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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 05, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Lehfeldt C27-15

Work Order #2212408

Enclosed are the results of analyses for samples received by Summit Scientific on 12/20/22 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltdt C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL14@4'	2212408-01	Soil	12/16/22 00:00	12/20/22 16:30
FL07@4'	2212408-02	Soil	12/16/22 00:00	12/20/22 16:30
FL06@4'	2212408-03	Soil	12/16/22 00:00	12/20/22 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

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Client: Fremont Environmental	Project Manager: Paul Henehan
Address:	E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com
City/State/Zip:	Bill to Noble:
Phone:	Project Name: <u>Lehfeldt CR7-15</u>
Sampler Name: <u>Chris Latta</u>	Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TPH, BTEX, TMBS, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD				
1	FL14 @ 4'	12/16/22		2			X			X				X	X	X						
2	FL07 @ 4'			2			X			X				X	X	X						
3	FL06 @ 4'	12/16/22		2			X			X				X	X	X						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: <u>Chris Latta</u>	Date/Time: <u>12/20/22 2:20</u>	Received by: <u>SL</u>	Date/Time: <u>12/20/22 8:20</u>	Turn Around Time (Check)	Notes:
				Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Flowline
				24 hours <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Relinquished by: <u>SZ</u>	Date/Time: <u>12/20/22 16:20</u>	Received by: 	Date/Time: <u>12/20/22 16:30</u>	Sample Integrity:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: <u>8.9</u>	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2212408

Client: Fremont Client Project ID: Lehfeldt C 27-15,16

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

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

Temp (°C) 8.9 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>on ice</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 type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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.

[Signature] 12-20-22 1630
Custodian Printed Name Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

FL14@4'
2212408-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0550	12/21/22	12/23/22	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: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0328	82.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0554	12/21/22	12/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	16.7	133 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

FL14@4'
2212408-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00670	0.00500	mg/kg	1	BFL0584	12/22/22	01/05/23	EPA 8270D SIM	
Anthracene	0.0119	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0246	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0152	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0242	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00976	0.00500	"	"	"	"	"	"	
Chrysene	0.0267	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0655	0.00500	"	"	"	"	"	"	
Fluorene	0.00713	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.00954	0.00500	"	"	"	"	"	"	
Pyrene	0.0512	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.19	0.0100	mg/L	1	BFL0648	12/27/22	12/28/22	EPA 6020B	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.8	0.0556	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

FL14@4'
2212408-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	11.9	0.0556	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	
Sodium	83.2	0.0556	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.02	0.00100	units	1	BFL0765	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BFL0662	12/27/22	12/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.872	0.0100	mmhos/cm	1	BFL0730	12/29/22	12/29/22	EPA 120.1	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BFL0729	12/29/22	12/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

FL07@4'
2212408-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0550	12/21/22	01/04/23	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	0.11	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0426	106 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0413	103 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0436	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0554	12/21/22	12/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	15.7	126 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

FL07@4'
2212408-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.298	0.00500	mg/kg	1	BFL0584	12/22/22	01/05/23	EPA 8270D SIM	E
Anthracene	0.400	0.00500	"	"	"	"	"	"	E
Benzo (a) anthracene	0.398	0.00500	"	"	"	"	"	"	E
Benzo (a) pyrene	0.310	0.00500	"	"	"	"	"	"	E
Benzo (b) fluoranthene	0.435	0.00500	"	"	"	"	"	"	E
Benzo (k) fluoranthene	0.177	0.00500	"	"	"	"	"	"	E
Chrysene	0.418	0.00500	"	"	"	"	"	"	E
Dibenz (a,h) anthracene	0.0476	0.00500	"	"	"	"	"	"	E
Fluoranthene	1.27	0.00500	"	"	"	"	"	"	E
Fluorene	0.311	0.00500	"	"	"	"	"	"	E
Indeno (1,2,3-cd) pyrene	0.193	0.00500	"	"	"	"	"	"	E
Pyrene	0.880	0.00500	"	"	"	"	"	"	E
1-Methylnaphthalene	0.0677	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.160	0.00500	"	"	"	"	"	"	E

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0202	60.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.68	0.0100	mg/L	1	BFL0648	12/27/22	12/28/22	EPA 6020B	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.7	0.0549	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

FL07@4'
2212408-02 (Soil)

Summit Scientific

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Magnesium	11.2	0.0549	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B
Sodium	46.6	0.0549	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.76	0.00100	units	1	BFL0765	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BFL0662	12/27/22	12/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.567	0.0100	mmhos/cm	1	BFL0730	12/29/22	12/29/22	EPA 120.1	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BFL0729	12/29/22	12/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

FL06@4'
2212408-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0550	12/21/22	12/23/22	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: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0364	91.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0554	12/21/22	12/22/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.7	117 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

FL06@4'
2212408-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0142	0.00500	mg/kg	1	BFL0584	12/22/22	01/05/23	EPA 8270D SIM	
Anthracene	0.0277	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0543	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0367	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0558	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0226	0.00500	"	"	"	"	"	"	
Chrysene	0.0581	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.00644	0.00500	"	"	"	"	"	"	
Fluoranthene	0.139	0.00500	"	"	"	"	"	"	
Fluorene	0.0160	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0237	0.00500	"	"	"	"	"	"	
Pyrene	0.108	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0154	46.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.580	0.0100	mg/L	1	BFL0648	12/27/22	12/28/22	EPA 6020B	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.5	0.0537	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

FL06@4'
2212408-03 (Soil)

Summit Scientific

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	6.41	0.0537	mg/L dry	1	BFL0686	12/28/22	12/30/22	EPA 6020B	
Sodium	56.8	0.0537	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.64	0.00100	units	1	BFL0765	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BFL0662	12/27/22	12/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.542	0.0100	mmhos/cm	1	BFL0730	12/29/22	12/29/22	EPA 120.1	

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

Date Sampled: **12/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BFL0729	12/29/22	12/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehighfield C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

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 BFL0550 - EPA 5030 Soil MS

Blank (BFL0550-BLK1)

Prepared: 12/21/22 Analyzed: 12/22/22

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>	0.0297		"	0.0400		74.2	50-150				
<i>Surrogate: Toluene-d8</i>	0.0408		"	0.0400		102	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0365		"	0.0400		91.2	50-150				

LCS (BFL0550-BS1)

Prepared: 12/21/22 Analyzed: 12/22/22

Benzene	0.0553	0.0020	mg/kg	0.0750		73.7	70-130				
Toluene	0.0605	0.0050	"	0.0750		80.6	70-130				
Ethylbenzene	0.0694	0.0050	"	0.0750		92.6	70-130				
m,p-Xylene	0.139	0.010	"	0.150		92.8	70-130				
o-Xylene	0.0628	0.0050	"	0.0750		83.7	70-130				
1,2,4-Trimethylbenzene	0.0646	0.0050	"	0.0750		86.1	70-130				
1,3,5-Trimethylbenzene	0.0692	0.0050	"	0.0750		92.3	70-130				
Naphthalene	0.0640	0.0038	"	0.0750		85.4	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0260		"	0.0400		65.0	50-150				
<i>Surrogate: Toluene-d8</i>	0.0397		"	0.0400		99.2	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0361		"	0.0400		90.2	50-150				

Matrix Spike (BFL0550-MS1)

Source: 2212394-01

Prepared: 12/21/22 Analyzed: 12/22/22

Benzene	0.0529	0.0020	mg/kg	0.0750	ND	70.5	70-130				
Toluene	0.0573	0.0050	"	0.0750	ND	76.4	70-130				
Ethylbenzene	0.0688	0.0050	"	0.0750	ND	91.8	70-130				
m,p-Xylene	0.138	0.010	"	0.150	ND	92.2	70-130				
o-Xylene	0.0619	0.0050	"	0.0750	ND	82.5	70-130				
1,2,4-Trimethylbenzene	0.0635	0.0050	"	0.0750	ND	84.7	70-130				
1,3,5-Trimethylbenzene	0.0688	0.0050	"	0.0750	ND	91.7	70-130				
Naphthalene	0.0674	0.0038	"	0.0750	0.00312	85.7	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0250		"	0.0400		62.6	50-150				
<i>Surrogate: Toluene-d8</i>	0.0384		"	0.0400		95.9	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0363		"	0.0400		90.8	50-150				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/05/23 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 BFL0550 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0550-MSD1)	Source: 2212394-01			Prepared: 12/21/22 Analyzed: 12/22/22						
Benzene	0.0525	0.0020	mg/kg	0.0750	ND	70.0	70-130	0.626	30	
Toluene	0.0586	0.0050	"	0.0750	ND	78.2	70-130	2.38	30	
Ethylbenzene	0.0598	0.0050	"	0.0750	ND	79.8	70-130	13.9	30	
m,p-Xylene	0.123	0.010	"	0.150	ND	81.8	70-130	11.9	30	
o-Xylene	0.0568	0.0050	"	0.0750	ND	75.7	70-130	8.55	30	
1,2,4-Trimethylbenzene	0.0609	0.0050	"	0.0750	ND	81.2	70-130	4.15	30	
1,3,5-Trimethylbenzene	0.0635	0.0050	"	0.0750	ND	84.7	70-130	7.98	30	
Naphthalene	0.0726	0.0038	"	0.0750	0.00312	92.6	70-130	7.41	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0311</i>		<i>"</i>	<i>0.0400</i>		<i>77.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0369</i>		<i>"</i>	<i>0.0400</i>		<i>92.2</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
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Project: Noble - Lehfeldt C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/05/23 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 BFL0554 - EPA 3550A

Blank (BFL0554-BLK1)

Prepared & Analyzed: 12/21/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5	108	30-150					

LCS (BFL0554-BS1)

Prepared & Analyzed: 12/21/22

C10-C28 (DRO)	502	50	mg/kg	500	100	70-130					
Surrogate: <i>o</i> -Terphenyl	16.5		"	12.5	132	30-150					

Matrix Spike (BFL0554-MS1)

Source: 2212394-01

Prepared & Analyzed: 12/21/22

C10-C28 (DRO)	411	50	mg/kg	500	26.8	76.9	70-130				
Surrogate: <i>o</i> -Terphenyl	15.0		"	12.5	120	30-150					

Matrix Spike Dup (BFL0554-MSD1)

Source: 2212394-01

Prepared & Analyzed: 12/21/22

C10-C28 (DRO)	402	50	mg/kg	500	26.8	75.1	70-130	2.27	20		
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5	117	30-150					

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeldt C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 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 BFL0584 - EPA 5030 Soil MS

Blank (BFL0584-BLK1)

Prepared & Analyzed: 12/22/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0289		"	0.0333		86.6	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0264		"	0.0333		79.2	40-150			

LCS (BFL0584-BS1)

Prepared & Analyzed: 12/22/22

Acenaphthene	0.0272	0.00500	mg/kg	0.0333		81.6	31-137			
Anthracene	0.0281	0.00500	"	0.0333		84.4	30-120			
Benzo (a) anthracene	0.0272	0.00500	"	0.0333		81.7	30-120			
Benzo (a) pyrene	0.0278	0.00500	"	0.0333		83.5	30-120			
Benzo (b) fluoranthene	0.0272	0.00500	"	0.0333		81.6	30-120			
Benzo (k) fluoranthene	0.0278	0.00500	"	0.0333		83.4	30-120			
Chrysene	0.0290	0.00500	"	0.0333		86.9	30-120			
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333		74.0	30-120			
Fluoranthene	0.0288	0.00500	"	0.0333		86.3	30-120			
Fluorene	0.0268	0.00500	"	0.0333		80.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0278	0.00500	"	0.0333		83.4	30-120			
Pyrene	0.0246	0.00500	"	0.0333		73.9	35-142			
1-Methylnaphthalene	0.0286	0.00500	"	0.0333		85.9	35-142			
2-Methylnaphthalene	0.0251	0.00500	"	0.0333		75.3	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0258		"	0.0333		77.5	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0293		"	0.0333		87.9	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeldt C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 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 BFL0584 - EPA 5030 Soil MS

Matrix Spike (BFL0584-MS1)	Source: 2212421-01			Prepared & Analyzed: 12/22/22								
Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.3	31-137					
Anthracene	0.0213	0.00500	"	0.0333	ND	63.9	30-120					
Benzo (a) anthracene	0.0251	0.00500	"	0.0333	ND	75.3	30-120					
Benzo (a) pyrene	0.0222	0.00500	"	0.0333	ND	66.5	30-120					
Benzo (b) fluoranthene	0.0241	0.00500	"	0.0333	ND	72.2	30-120					
Benzo (k) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.0	30-120					
Chrysene	0.0257	0.00500	"	0.0333	ND	77.2	30-120					
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.6	30-120					
Fluoranthene	0.0383	0.00500	"	0.0333	ND	115	30-120					
Fluorene	0.0182	0.00500	"	0.0333	ND	54.6	30-120					
Indeno (1,2,3-cd) pyrene	0.0201	0.00500	"	0.0333	ND	60.4	30-120					
Pyrene	0.0305	0.00500	"	0.0333	ND	91.4	35-142					
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.4	15-130					
2-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.4	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0172</i>		<i>"</i>	<i>0.0333</i>		<i>51.7</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0204</i>		<i>"</i>	<i>0.0333</i>		<i>61.1</i>	<i>40-150</i>					

Matrix Spike Dup (BFL0584-MSD1)	Source: 2212421-01			Prepared & Analyzed: 12/22/22								
Acenaphthene	0.0223	0.00500	mg/kg	0.0333	ND	66.9	31-137	19.0	30			
Anthracene	0.0258	0.00500	"	0.0333	ND	77.3	30-120	18.9	30			
Benzo (a) anthracene	0.0332	0.00500	"	0.0333	ND	99.7	30-120	27.9	30			
Benzo (a) pyrene	0.0290	0.00500	"	0.0333	ND	87.0	30-120	26.8	30			
Benzo (b) fluoranthene	0.0325	0.00500	"	0.0333	ND	97.4	30-120	29.8	30			
Benzo (k) fluoranthene	0.0260	0.00500	"	0.0333	ND	77.9	30-120	22.8	30			
Chrysene	0.0344	0.00500	"	0.0333	ND	103	30-120	28.8	30			
Dibenz (a,h) anthracene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	13.6	30			
Fluoranthene	0.0260	0.00500	"	0.0333	ND	78.1	30-120	38.2	30			QR-02
Fluorene	0.0218	0.00500	"	0.0333	ND	65.3	30-120	17.8	30			
Indeno (1,2,3-cd) pyrene	0.0254	0.00500	"	0.0333	ND	76.3	30-120	23.2	30			
Pyrene	0.0387	0.00500	"	0.0333	ND	116	35-142	23.9	30			
1-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.6	15-130	23.2	50			
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.5	15-130	16.6	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0198</i>		<i>"</i>	<i>0.0333</i>		<i>59.5</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0246</i>		<i>"</i>	<i>0.0333</i>		<i>73.8</i>	<i>40-150</i>					

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeldt C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/05/23 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 BFL0648 - EPA 3050B

Blank (BFL0648-BLK1)

Prepared: 12/27/22 Analyzed: 12/28/22

Boron ND 0.0100 mg/L

LCS (BFL0648-BS1)

Prepared: 12/27/22 Analyzed: 12/28/22

Boron 4.77 0.0100 mg/L 5.00 95.3 80-120

Duplicate (BFL0648-DUP1)

Source: 2212127-02

Prepared: 12/27/22 Analyzed: 12/28/22

Boron 0.500 0.0100 mg/L 0.485 3.09 20

Matrix Spike (BFL0648-MS1)

Source: 2212127-02

Prepared: 12/27/22 Analyzed: 12/28/22

Boron 4.58 0.0100 mg/L 5.00 0.485 82.0 75-125

Matrix Spike Dup (BFL0648-MSD1)

Source: 2212127-02

Prepared: 12/27/22 Analyzed: 12/28/22

Boron 4.92 0.0100 mg/L 5.00 0.485 88.7 75-125 7.10 25

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/05/23 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 BFL0686 - General Preparation

Blank (BFL0686-BLK1)

Prepared: 12/28/22 Analyzed: 12/30/22

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

LCS (BFL0686-BS1)

Prepared: 12/28/22 Analyzed: 12/30/22

Calcium	5.81	0.0500	mg/L wet	5.00		116	70-130			
Magnesium	5.76	0.0500	"	5.00		115	70-130			
Sodium	5.65	0.0500	"	5.00		113	70-130			

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/05/23 10:18

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

Summit Scientific

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

Batch BFL0662 - General Preparation

Duplicate (BFL0662-DUP1)	Source: 2212404-01		Prepared: 12/27/22 Analyzed: 12/28/22		
% Solids	91.3	%	91.9	0.584	20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/05/23 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 BFL0730 - General Preparation

Blank (BFL0730-BLK1)

Prepared & Analyzed: 12/29/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0730-BS1)

Prepared & Analyzed: 12/29/22

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 97.8 95-105

Duplicate (BFL0730-DUP1)

Source: 2212408-01

Prepared & Analyzed: 12/29/22

Specific Conductance (EC) 0.863 0.0100 mmhos/cm 0.872 1.04 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/05/23 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 BFL0729 - General Preparation

LCS (BFL0729-BS1)

Prepared & Analyzed: 12/29/22

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BFL0729-DUP1)

Source: 2212408-01

Prepared & Analyzed: 12/29/22

pH	8.01	pH Units	8.00	0.125	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/05/23 10:18

Notes and Definitions

- 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.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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