

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, 16
Work Order #2212403

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, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@6"	2212403-01	Soil	12/15/22 00:00	12/20/22 16:30
SEP02@3'	2212403-02	Soil	12/15/22 00:00	12/20/22 16:30
PWVN01@7'	2212403-03	Soil	12/15/22 00:00	12/20/22 16:30
PWVB01@8.5'	2212403-04	Soil	12/15/22 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.

22/2423

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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: Lehigh C 27-15, 16
Sampler Name: Chris Lattes 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, TMS, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD
1	ASTG1 @ 6'	12/15/22		2			X			X			X	X	X				
2	SEP02 @ 3'	↓		↓															
3	PWUN01 @ 7'	↓		↓															
4	PWVB01 @ 5.5'	↓		↓															
5	BKG01 @ 1'	12/15/22		2			X			X			X	X	X			X	Hold CL
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>Chris Lattes</u> Date/Time: <u>12/20/22 2:15</u>	Received by: <u>S2</u> Date/Time: <u>12/20/22 3:15</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Notes: <u>Facility</u>
Relinquished by: <u>Chris Lattes</u> Date/Time: <u>12/20/22 10:30</u>	Received by: <u>[Signature]</u> Date/Time: <u>12/20/22 10:30</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# 2212403

Client: Fremont Client Project ID: Lehfeldt C27-15

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]
Custodian Printed Name

12-20-22 1630
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

AST01@6"
2212403-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 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: **12/15/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0290	72.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 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	12/21/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	16.3	130 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

**AST01@6''
2212403-01 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0558	12/21/22	12/21/22	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: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	41.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.124	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: **12/15/22 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, 16

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 09:48

**AST01@6''
 2212403-01 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.1	0.0513	mg/L dry	1	BFL0666	12/27/22	12/29/22	EPA 6020B	
Magnesium	7.85	0.0513	"	"	"	"	"	"	
Sodium	2.17	0.0513	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0881	0.00100	units	1	BFL0758	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.4		%	1	BFL0640	12/27/22	12/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.109	0.0100	mmhos/cm	1	BFL0674	12/28/22	12/28/22	EPA 120.1	

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

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.61		pH Units	1	BFL0673	12/28/22	12/28/22	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

SEP02@3'
2212403-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 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: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0311	77.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0358	89.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 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	12/21/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.8	127 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

SEP02@3'
2212403-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0558	12/21/22	12/21/22	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: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0241	72.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	45.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.98	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: **12/15/22 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, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

SEP02@3'
2212403-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.9	0.0637	mg/L dry	1	BFL0666	12/27/22	12/29/22	EPA 6020B	
Magnesium	9.85	0.0637	"	"	"	"	"	"	
Sodium	11.4	0.0637	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.365	0.00100	units	1	BFL0758	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.6		%	1	BFL0640	12/27/22	12/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.217	0.0100	mmhos/cm	1	BFL0674	12/28/22	12/28/22	EPA 120.1	

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

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BFL0673	12/28/22	12/28/22	EPA 9045D	

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Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

PWVN01@7'
2212403-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 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	1.8	0.50	"	"	"	"	"	"	

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0323	80.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	3000	50	mg/kg	1	BFL0554	12/21/22	12/21/22	EPA 8015M	
C28-C36 (ORO)	360	50	"	"	"	"	"	"	

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.5	124 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

PWVN01@7'
2212403-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0558	12/21/22	12/21/22	EPA 8270D SIM	
Anthracene	0.0938	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	0.0206	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	0.0541	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	0.0155	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	0.114	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	0.0164	0.00500	"	"	"	"	"	"	"

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0265	79.5 %	40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10	0.0149	44.8 %	40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	4.26	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: **12/15/22 00:00**

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

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 09:48

PWVN01@7'
2212403-03 (Soil)

Summit Scientific

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Calcium	68.8	0.0594	mg/L dry	1	BFL0666	12/27/22	12/29/22	EPA 6020B
Magnesium	9.94	0.0594	"	"	"	"	"	"
Sodium	177	0.0594	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.28	0.00100	units	1	BFL0758	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BFL0640	12/27/22	12/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.406	0.0100	mmhos/cm	1	BFL0674	12/28/22	12/28/22	EPA 120.1	

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

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BFL0673	12/28/22	12/28/22	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

PWVB01@8.5'
2212403-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 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: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0347	86.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0420	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0462	115 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 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: **12/15/22 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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

PWVB01@8.5'
2212403-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0558	12/21/22	12/21/22	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: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0220	65.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0170	50.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.28	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: **12/15/22 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, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

PWVB01@8.5'
2212403-04 (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	548	0.0559	mg/L dry	1	BFL0666	12/27/22	12/29/22	EPA 6020B	
Magnesium	78.8	0.0559	"	"	"	"	"	"	
Sodium	153	0.0559	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.62	0.00100	units	1	BFL0758	12/30/22	12/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	BFL0640	12/27/22	12/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.414	0.0100	mmhos/cm	1	BFL0674	12/28/22	12/28/22	EPA 120.1	

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

Date Sampled: **12/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.79		pH Units	1	BFL0673	12/28/22	12/28/22	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

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	"								
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				

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Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 09:48

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	
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			

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeldt C27-15, 16

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 09:48

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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Wellington CO, 80549

Project: Noble - Lehfeldt C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

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 BFL0558 - EPA 5030 Soil MS

Blank (BFL0558-BLK1)

Prepared & Analyzed: 12/21/22

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	0.0344		"	0.0333		103	40-150			
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.6	40-150			

LCS (BFL0558-BS1)

Prepared & Analyzed: 12/21/22

Acenaphthene	0.0272	0.00500	mg/kg	0.0333		81.6	31-137			
Anthracene	0.0237	0.00500	"	0.0333		71.1	30-120			
Benzo (a) anthracene	0.0197	0.00500	"	0.0333		59.0	30-120			
Benzo (a) pyrene	0.0198	0.00500	"	0.0333		59.3	30-120			
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333		72.8	30-120			
Benzo (k) fluoranthene	0.0251	0.00500	"	0.0333		75.4	30-120			
Chrysene	0.0223	0.00500	"	0.0333		67.0	30-120			
Dibenz (a,h) anthracene	0.0204	0.00500	"	0.0333		61.3	30-120			
Fluoranthene	0.0243	0.00500	"	0.0333		72.9	30-120			
Fluorene	0.0220	0.00500	"	0.0333		66.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333		62.4	30-120			
Pyrene	0.0228	0.00500	"	0.0333		68.4	35-142			
1-Methylnaphthalene	0.0218	0.00500	"	0.0333		65.5	35-142			
2-Methylnaphthalene	0.0224	0.00500	"	0.0333		67.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.0	40-150			
Surrogate: Fluoranthene-d10	0.0265		"	0.0333		79.6	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

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 BFL0558 - EPA 5030 Soil MS

Matrix Spike (BFL0558-MS1)	Source: 2212403-01			Prepared & Analyzed: 12/21/22							
Acenaphthene	0.0320	0.00500	mg/kg	0.0333	ND	95.9	31-137				
Anthracene	0.0240	0.00500	"	0.0333	ND	72.1	30-120				
Benzo (a) anthracene	0.0208	0.00500	"	0.0333	ND	62.3	30-120				
Benzo (a) pyrene	0.0269	0.00500	"	0.0333	ND	80.8	30-120				
Benzo (b) fluoranthene	0.0273	0.00500	"	0.0333	ND	82.0	30-120				
Benzo (k) fluoranthene	0.0269	0.00500	"	0.0333	ND	80.6	30-120				
Chrysene	0.0237	0.00500	"	0.0333	ND	71.2	30-120				
Dibenz (a,h) anthracene	0.0250	0.00500	"	0.0333	ND	75.0	30-120				
Fluoranthene	0.0227	0.00500	"	0.0333	ND	68.0	30-120				
Fluorene	0.0270	0.00500	"	0.0333	ND	81.1	30-120				
Indeno (1,2,3-cd) pyrene	0.0229	0.00500	"	0.0333	ND	68.6	30-120				
Pyrene	0.0253	0.00500	"	0.0333	ND	76.0	35-142				
1-Methylnaphthalene	0.0222	0.00500	"	0.0333	ND	66.5	15-130				
2-Methylnaphthalene	0.0258	0.00500	"	0.0333	ND	77.5	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0238</i>		<i>"</i>	<i>0.0333</i>		<i>71.5</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0240</i>		<i>"</i>	<i>0.0333</i>		<i>72.0</i>	<i>40-150</i>				

Matrix Spike Dup (BFL0558-MSD1)	Source: 2212403-01			Prepared & Analyzed: 12/21/22							
Acenaphthene	0.0310	0.00500	mg/kg	0.0333	ND	93.1	31-137	2.90	30		
Anthracene	0.0253	0.00500	"	0.0333	ND	76.0	30-120	5.35	30		
Benzo (a) anthracene	0.0223	0.00500	"	0.0333	ND	66.8	30-120	6.98	30		
Benzo (a) pyrene	0.0278	0.00500	"	0.0333	ND	83.5	30-120	3.30	30		
Benzo (b) fluoranthene	0.0296	0.00500	"	0.0333	ND	88.9	30-120	8.09	30		
Benzo (k) fluoranthene	0.0288	0.00500	"	0.0333	ND	86.4	30-120	6.94	30		
Chrysene	0.0259	0.00500	"	0.0333	ND	77.7	30-120	8.85	30		
Dibenz (a,h) anthracene	0.0295	0.00500	"	0.0333	ND	88.4	30-120	16.5	30		
Fluoranthene	0.0237	0.00500	"	0.0333	ND	71.2	30-120	4.59	30		
Fluorene	0.0246	0.00500	"	0.0333	ND	73.9	30-120	9.37	30		
Indeno (1,2,3-cd) pyrene	0.0258	0.00500	"	0.0333	ND	77.5	30-120	12.2	30		
Pyrene	0.0267	0.00500	"	0.0333	ND	80.1	35-142	5.29	30		
1-Methylnaphthalene	0.0261	0.00500	"	0.0333	ND	78.3	15-130	16.4	50		
2-Methylnaphthalene	0.0275	0.00500	"	0.0333	ND	82.6	15-130	6.38	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>72.8</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0228</i>		<i>"</i>	<i>0.0333</i>		<i>68.3</i>	<i>40-150</i>				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 09:48

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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Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 09:48

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 BFL0666 - General Preparation

Blank (BFL0666-BLK1)

Prepared: 12/27/22 Analyzed: 12/29/22

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

LCS (BFL0666-BS1)

Prepared: 12/27/22 Analyzed: 12/29/22

Calcium	4.48	0.0500	mg/L wet	5.00		89.7	70-130			
Magnesium	4.92	0.0500	"	5.00		98.3	70-130			
Sodium	4.90	0.0500	"	5.00		98.0	70-130			

Summit Scientific

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 PO Box 1289
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Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 09:48

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

Summit Scientific

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

Batch BFL0640 - General Preparation

Duplicate (BFL0640-DUP1)

Source: 2212403-01

Prepared & Analyzed: 12/27/22

% Solids	97.8		%		97.4			0.382	20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 09:48

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 BFL0674 - General Preparation

Blank (BFL0674-BLK1)

Prepared & Analyzed: 12/28/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0674-BS1)

Prepared & Analyzed: 12/28/22

Specific Conductance (EC) 0.144 0.0100 mmhos/cm 0.150 96.0 95-105

Duplicate (BFL0674-DUP1)

Source: 2212403-01

Prepared & Analyzed: 12/28/22

Specific Conductance (EC) 0.108 0.0100 mmhos/cm 0.109 0.831 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/03/23 09:48

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 BFL0673 - General Preparation

LCS (BFL0673-BS1)

Prepared & Analyzed: 12/28/22

pH 9.05 pH Units 9.18 98.6 95-105

Duplicate (BFL0673-DUP1)

Source: 2212403-01

Prepared & Analyzed: 12/28/22

pH 6.65 pH Units 6.61 0.603 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15, 16

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/03/23 09:48

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference