

# Summit Scientific

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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

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# Summit Scientific

S<sub>2</sub>

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

S<sub>2</sub>

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)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

PS  
Custodian Printed Name

12-20-22 1630  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
01/05/23 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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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	

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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	

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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	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.11</b>	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	0.0426	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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
Surrogate: o-Terphenyl	15.7	126 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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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	

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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

**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	

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PO Box 1289  
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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		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**

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PO Box 1289  
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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	

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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

**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
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	

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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				

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Fremont Environmental  
 PO Box 1289  
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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		

**Batch BFL0550 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BFL0550-MSD1)</b>	<b>Source: 2212394-01</b>			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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Project: Noble - Lehfeltd 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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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			

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Project: Noble - Lehfeltdt 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**

<b>Matrix Spike (BFL0584-MS1)</b>	<b>Source: 2212421-01</b>			<b>Prepared &amp; Analyzed: 12/22/22</b>						
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>			

<b>Matrix Spike Dup (BFL0584-MSD1)</b>	<b>Source: 2212421-01</b>			<b>Prepared &amp; Analyzed: 12/22/22</b>						
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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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd 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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 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				

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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

*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:**  
 01/05/23 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

**Duplicate (BFL0729-DUP1)**

Source: 2212408-01

Prepared & Analyzed: 12/29/22

pH 8.01 pH Units 8.00 0.125 20

Summit Scientific

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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