

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 11, 2023

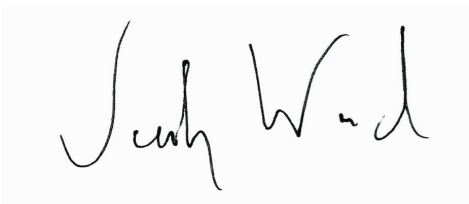
Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Lehfeldt C27-15

Work Order #2311491

Enclosed are the results of analyses for samples received by Summit Scientific on 11/22/23 17:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltdt C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 4'	2311491-01	Soil	11/21/23 13:55	11/22/23 17:08
BKG01 6'	2311491-02	Soil	11/21/23 14:00	11/22/23 17:08
BKG02 4'	2311491-03	Soil	11/22/23 10:05	11/22/23 17:08
BKG02 6'	2311491-04	Soil	11/22/23 10:10	11/22/23 17:08
BKG03 4'	2311491-05	Soil	11/22/23 10:15	11/22/23 17:08
BKG03 6'	2311491-06	Soil	11/22/23 10:20	11/22/23 17:08
BKG04 4'	2311491-07	Soil	11/22/23 10:25	11/22/23 17:08
BKG04 6'	2311491-08	Soil	11/22/23 10:30	11/22/23 17:08
BKG05 4'	2311491-09	Soil	11/22/23 10:35	11/22/23 17:08
BKG05 6'	2311491-10	Soil	11/22/23 10:40	11/22/23 17:08

Summit Scientific

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

Lab ID 2311491 Page 1 of 1

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: Fremont Distribution List		Project Name/Location: <u>Lehfelst 027-15</u>	
City/State/Zip:		Project Name: <u>Lehfelst 027-15</u>		AFE#:	
Phone: 303-261-6246		Project Number: <u>6022-207</u>		PO/Billing Codes:	
Sampler Name: Stanley Gilbert				Contact: <u>Dan Peterson</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions				
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate	HOLD		
1	BK602 4'	11/21/23	13:55	1			X			X												
2	BK602 6'	11/21/23	14:00	1			X			X												
3	BK602 4'	11/22/23	10:05	1																		
4	BK602 6'		10:10	1																		
5	BK603 4'		10:15	1																		
6	BK603 6'		10:20	1																		
7	BK604 4'		10:25	1																		
8	BK604 6'		10:30	1																		
9	BK605 4'		10:35	1																		
10	BK605 6'		10:40	1																		
11																						
12																						
13																						
14																						
15																						

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/22/23 17:02</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1708 11-22-23</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>19.1</u>	Corrected Temperature: _____	IR gun #: <u>2</u>	HNO3 lot #: _____			

S₂

Sample Receipt Checklist

S2 Work Order# 2311491

Client: Fremont Environmental Client Project ID: Lefeldt C27-15

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

[x] [] [] [] []

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

Temp (°C) 19.1

Thermometer # 2

	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.	[x]	[]	[]	ON ICE
If custody seals are present, are they intact? (1)	[]	[]	[x]	
Are samples due within 48 hours present?	[]	[x]	[]	
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	[]	[]	[x]	
Is a chain-of-custody (COC) form present and filled out Completely? (1)	[x]	[]	[]	
Is the COC properly relinquished by the client w/ date and time recorded? (1)	[x]	[]	[]	
Were all samples received intact? (1)	[x]	[]	[]	
Was adequate sample volume provided? (1)	[x]	[]	[]	
Does the COC agree with the number and type of sample bottles received? (1)	[x]	[]	[]	
Do the sample IDs on the bottle labels match the COC? (1)	[x]	[]	[]	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	[]	[]	[x]	
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.	[]	[]	[x]	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.	[]	[]	[x]	
If dissolved metals are requested, were samples field filtered?	[]	[]	[x]	

Additional Comments (if any):

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

Josh
Custodian Printed Name

11-22-23 1708
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG01 4'
2311491-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.38	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	109	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.02	0.400	"	"	"	"	"	"	
Lead	6.27	0.200	"	"	"	"	"	"	
Nickel	5.62	0.400	"	"	"	"	"	"	
Silver	0.0337	0.0200	"	"	"	"	"	"	
Zinc	16.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	42.7	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	10.1	0.0500	"	"	"	"	"	"	
Sodium	80.2	0.0500	"	"	"	"	"	"	

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Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG01 4'
2311491-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.86	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.662	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG01 6'
2311491-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.23	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	98.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.02	0.400	"	"	"	"	"	"	
Lead	5.21	0.200	"	"	"	"	"	"	
Nickel	3.92	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	175	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	18.6	0.0500	"	"	"	"	"	"	
Sodium	50.8	0.0500	"	"	"	"	"	"	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG01 6'
2311491-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.975	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.326	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.98		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG02 4'
2311491-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.37	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	38.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.23	0.400	"	"	"	"	"	"	
Lead	4.67	0.200	"	"	"	"	"	"	
Nickel	3.47	0.400	"	"	"	"	"	"	
Silver	0.0207	0.0200	"	"	"	"	"	"	
Zinc	12.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	132	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	17.9	0.0500	"	"	"	"	"	"	
Sodium	44.8	0.0500	"	"	"	"	"	"	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG02 4'
2311491-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.971	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.276	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG02 6'
2311491-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.16	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	755	0.400	"	"	"	"	"	"	
Cadmium	0.252	0.200	"	"	"	"	"	"	
Copper	7.41	0.400	"	"	"	"	"	"	
Lead	10.3	0.200	"	"	"	"	"	"	
Nickel	5.83	0.400	"	"	"	"	"	"	
Silver	0.0546	0.0200	"	"	"	"	"	"	
Zinc	22.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	147	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	18.9	0.0500	"	"	"	"	"	"	
Sodium	44.9	0.0500	"	"	"	"	"	"	

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 PO Box 1289
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Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG02 6'
2311491-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.926	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.2		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.264	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.00		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

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Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG03 4'
2311491-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.22	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	46.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.19	0.400	"	"	"	"	"	"	
Lead	4.45	0.200	"	"	"	"	"	"	
Nickel	3.14	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	49.7	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	12.4	0.0500	"	"	"	"	"	"	
Sodium	22.7	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG03 4'
2311491-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.746	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.8		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.137	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG03 6'
2311491-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.75	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	63.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.37	0.400	"	"	"	"	"	"	
Lead	5.41	0.200	"	"	"	"	"	"	
Nickel	3.76	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	145	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	19.4	0.0500	"	"	"	"	"	"	
Sodium	39.7	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG03 6'
2311491-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.822	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.258	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.96		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG04 4'
2311491-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.85	0.200		mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	76.1	0.400		"	"	"	"	"	"	
Cadmium	0.200	0.200		"	"	"	"	"	"	
Copper	6.67	0.400		"	"	"	"	"	"	
Lead	14.2	0.200		"	"	"	"	"	"	
Nickel	6.08	0.400		"	"	"	"	"	"	
Silver	0.0501	0.0200		"	"	"	"	"	"	
Zinc	76.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	88.9	0.0500		mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	22.0	0.0500		"	"	"	"	"	"	
Sodium	108	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG04 4'
2311491-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.63	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.07	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG04 6'
2311491-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.60	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	141	0.400	"	"	"	"	"	"	
Cadmium	0.226	0.200	"	"	"	"	"	"	
Copper	7.02	0.400	"	"	"	"	"	"	
Lead	11.0	0.200	"	"	"	"	"	"	
Nickel	6.91	0.400	"	"	"	"	"	"	
Silver	0.0442	0.0200	"	"	"	"	"	"	
Zinc	26.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	53.4	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	7.75	0.0500	"	"	"	"	"	"	
Sodium	71.6	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG04 6'
2311491-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.42	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.7		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.500	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.71		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG05 4'
2311491-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.73	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	89.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.50	0.400	"	"	"	"	"	"	
Lead	5.56	0.200	"	"	"	"	"	"	
Nickel	4.03	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	165	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	11.7	0.0500	"	"	"	"	"	"	
Sodium	46.4	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

BKG05 4'
2311491-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.939	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.322	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.84		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG05 6'
2311491-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.00	0.200		mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	117	0.400		"	"	"	"	"	"	
Cadmium	0.342	0.200		"	"	"	"	"	"	
Copper	9.98	0.400		"	"	"	"	"	"	
Lead	15.0	0.200		"	"	"	"	"	"	
Nickel	7.60	0.400		"	"	"	"	"	"	
Silver	0.0622	0.0200		"	"	"	"	"	"	
Zinc	30.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	64.1	0.0500		mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	8.94	0.0500		"	"	"	"	"	"	
Sodium	92.5	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

BKG05 6'
2311491-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.87	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.3		%	1	BGL0018	12/01/23	12/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.500	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

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 BGK1122 - EPA 3050B

Blank (BGK1122-BLK1)

Prepared: 11/30/23 Analyzed: 12/06/23

Boron ND 2.00 mg/L

LCS (BGK1122-BS1)

Prepared: 11/30/23 Analyzed: 12/06/23

Boron 5.10 2.00 mg/L 5.00 102 80-120

Duplicate (BGK1122-DUP1)

Source: 2311488-01

Prepared: 11/30/23 Analyzed: 12/06/23

Boron 0.150 2.00 mg/L 0.155 3.33 20

Matrix Spike (BGK1122-MS1)

Source: 2311488-01

Prepared: 11/30/23 Analyzed: 12/06/23

Boron 5.46 2.00 mg/L 5.00 0.155 106 75-125

Matrix Spike Dup (BGK1122-MSD1)

Source: 2311488-01

Prepared: 11/30/23 Analyzed: 12/06/23

Boron 5.70 2.00 mg/L 5.00 0.155 111 75-125 4.27 25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeldt C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGL0084 - EPA 3050B

Blank (BGL0084-BLK1)

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

LCS (BGL0084-BS1)

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	34.6	0.200	mg/kg wet	40.0	86.4	80-120					
Barium	37.0	0.400	"	40.0	92.4	80-120					
Cadmium	1.89	0.200	"	2.00	94.4	80-120					
Copper	44.1	0.400	"	40.0	110	80-120					
Lead	18.9	0.200	"	20.0	94.3	80-120					
Nickel	42.0	0.400	"	40.0	105	80-120					
Silver	1.87	0.0200	"	2.00	93.6	80-120					
Zinc	41.9	0.400	"	40.0	105	80-120					
Selenium	3.99	0.260	"	4.00	99.8	80-120					

Duplicate (BGL0084-DUP1)

Source: 2311491-01

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	2.16	0.200	mg/kg dry	2.38	9.81	20					
Barium	88.0	0.400	"	109	21.3	20					QR-04
Cadmium	0.127	0.200	"	0.134	5.25	20					
Copper	4.63	0.400	"	5.02	8.08	20					
Lead	5.90	0.200	"	6.27	6.09	20					
Nickel	4.32	0.400	"	5.62	26.3	20					QR-04
Silver	0.0278	0.0200	"	0.0337	19.3	20					
Zinc	15.3	0.400	"	16.3	6.51	20					
Selenium	ND	0.260	"	ND		20					

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGL0084 - EPA 3050B

Matrix Spike (BGL0084-MS1)

Source: 2311491-01

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	41.6	0.200	mg/kg dry	45.6	2.38	86.1	75-125				
Barium	118	0.400	"	45.6	109	19.0	75-125				QM-07
Cadmium	2.31	0.200	"	2.28	0.134	95.4	75-125				
Copper	37.6	0.400	"	45.6	5.02	71.5	75-125				QM-07
Lead	27.0	0.200	"	22.8	6.27	91.0	75-125				
Nickel	35.8	0.400	"	45.6	5.62	66.2	75-125				QM-07
Silver	2.20	0.0200	"	2.28	0.0337	95.0	75-125				
Zinc	46.6	0.400	"	45.6	16.3	66.4	75-125				QM-07
Selenium	4.16	0.260	"	4.56	ND	91.2	75-125				

Matrix Spike Dup (BGL0084-MSD1)

Source: 2311491-01

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	41.3	0.200	mg/kg dry	45.6	2.38	85.5	75-125	0.723	25		
Barium	117	0.400	"	45.6	109	17.4	75-125	0.634	25		QM-07
Cadmium	2.31	0.200	"	2.28	0.134	95.7	75-125	0.355	25		
Copper	38.3	0.400	"	45.6	5.02	73.1	75-125	1.93	25		QM-07
Lead	27.2	0.200	"	22.8	6.27	91.8	75-125	0.678	25		
Nickel	36.4	0.400	"	45.6	5.62	67.6	75-125	1.77	25		QM-07
Silver	2.20	0.0200	"	2.28	0.0337	94.9	75-125	0.0829	25		
Zinc	47.6	0.400	"	45.6	16.3	68.6	75-125	2.15	25		QM-07
Selenium	4.38	0.260	"	4.56	ND	96.2	75-125	5.30	25		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeldt C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGK1082 - 3060A Mod

Blank (BGK1082-BLK1)

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK1082-BS1)

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BGK1082-DUP1)

Source: 2311488-01

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGK1082-MS1)

Source: 2311488-01

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent 31.3 0.30 mg/kg dry 31.2 ND 100 75-125

Matrix Spike Dup (BGK1082-MSD1)

Source: 2311488-01

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent 31.3 0.30 mg/kg dry 31.2 ND 100 75-125 0.00 20

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

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

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 BGL0283 - General Preparation

Blank (BGL0283-BLK1)

Prepared: 12/07/23 Analyzed: 12/09/23

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

LCS (BGL0283-BS1)

Prepared: 12/07/23 Analyzed: 12/09/23

Calcium	5.60	0.0500	mg/L wet	5.00		112	70-130			
Magnesium	4.79	0.0500	"	5.00		95.8	70-130			
Sodium	4.68	0.0500	"	5.00		93.6	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

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 BGL0018 - General Preparation


Duplicate (BGL0018-DUP1)

Source: 2311490-01

Prepared & Analyzed: 12/01/23

% Solids	77.8		%		79.0			1.52		20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

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 BGL0291 - General Preparation

Blank (BGL0291-BLK1)

Prepared & Analyzed: 12/08/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL0291-BS1)

Prepared & Analyzed: 12/08/23

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

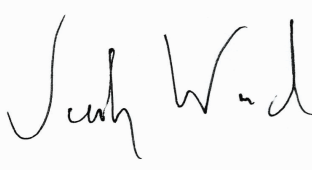
Duplicate (BGL0291-DUP1)

Source: 2311490-01

Prepared & Analyzed: 12/08/23

Specific Conductance (EC) 0.356 0.0100 mmhos/cm 0.356 0.00 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
 Project Manager: Paul Henchan

Reported:
 12/11/23 15:49

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 BGL0290 - General Preparation

LCS (BGL0290-BS1)

Prepared & Analyzed: 12/08/23

pH 9.07 pH Units 9.18 98.8 95-105

Duplicate (BGL0290-DUP1)

Source: 2311490-01

Prepared & Analyzed: 12/08/23

pH 8.86 pH Units 8.86 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207
Project Manager: Paul Henchan

Reported:
12/11/23 15:49

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference